FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E

TEST REPORT

For

PDA phone

Trade Name: HTC

Model: JADE130

Issued to

HTC Corporation No. 23, Xinghua Rd., Taoyuan City, Taiwan County, 330 R.O.C.

Issued by



Compliance Certification Services Inc.
No. 11, Wu-Gong 6th Rd., Wugu Industrial Park,
Taipei Hsien 248, Taiwan (R.O.C.)
http://www.ccsemc.com.tw
service@tw.ccsemc.com



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TABLE OF CONTENTS

1. TE	ST RESULT CERTIFICATION	3
2. EU	T DESCRIPTION	4
3. TE	ST METHODOLOGY	6
3.1	EUT CONFIGURATION	6
3.2	EUT EXERCISE	6
3.3	GENERAL TEST PROCEDURES	6
3.4	DESCRIPTION OF TEST MODES	7
4. IN	STRUMENT CALIBRATION	8
4.1	MEASURING INSTRUMENT CALIBRATION	8
4.2	MEASUREMENT EQUIPMENT USED	9
4.3	MEASUREMENT UNCERTAINTY	10
5. FA	CILITIES AND ACCREDITATIONS	11
5.1	FACILITIES	11
5.2	EQUIPMENT	11
5.3	TABLE OF ACCREDITATIONS AND LISTINGS	12
6. SE	TUP OF EQUIPMENT UNDER TEST	13
6.1	SETUP CONFIGURATION OF EUT	13
6.2	SUPPORT EQUIPMENT	
7. FC	C PART 22 & 24 REQUIREMENTS	14
7.1	PEAK POWER	14
7.2	AVERAGE POWER	17
7.3	ERP & EIRP MEASUREMENT	20
7.4	OCCUPIED BANDWIDTH MEASUREMENT	27
7.5	OUT OF BAND EMISSION AT ANTENNA TERMINALS	45
7.6	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	74
7.7	FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	
7.8	FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT	142
7.9	POWERLINE CONDUCTED EMISSIONS	148
APPEN	NDIX I PHOTOGRAPHS OF TEST SETUP	151

1. TEST RESULT CERTIFICATION

Applicant:	HTC Corporation

No. 23, Xinghua Rd., Taoyuan City,

Date of Issue: February 11, 2009

Taiwan County, 330 R.O.C.

Equipment Under Test: PDA phone

Trade Name: HTC

Model Number: JADE130

Date of Test: January 17 ~ February 10, 2009

APPLICABLE STANDARDS		
STANDARD	TEST RESULT	
FCC 47 CFR Part 22 Subpart H &	No non-compliance noted	
Part 24 Subpart E	Two non compitance noted	

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **TIA/EIA-603-C: 2004** and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 Subpart H and PART 24 Subpart E.

The test results of this report relate only to the tested sample identified in this report.

Approved by: Reviewed by:

Rex Lai Gina Lo

ex. (a:

Section Manager Section Manager

Compliance Certification Services Inc.

Compliance Certification Services Inc.

Page 3 Rev. 00

2. EUT DESCRIPTION

Product	PDA phone			
Trade Name	НТС			
Model Number	JADE130			
Model Discrepancy	N/A			
Power Supply	 VDC from P Battery: 3.7V Powered from P 	V, 1100mAh		a USB cable
Power Adapter Manufacturer	PHIHONG	Model	PS	AI05R-050Q
Power Adapter Power Rating	I/P: 100-240VAC O/P: 5V, 1.0A	, 50-60Hz, 0	.3A	
AC Power Cord Type	Unshielded, 1.0m	(Detachable) to	Power Adapter
LCD Panel Manufacturer	Hitachi	Model		TX07D31VM0AAA
Camera Manufacturer	LiteOn	Model		08PF02
Cumera Hamanaccarer	Primax	Model		NBR803
Accessories	 Earphone: MEC (model name: HS S200 / Unshielded, 1.2m) USB Cable: MEC (Model: DC U200 / 1m) Battery: TWS (model name: JADE160 (3.7V, 1100mAh)) WELLDONE (model name: JADE160 (3.7V, 1100mAh)) 			
GSM / GPRS / EDGE: 850: 824 ~ 849 MHz GSM / GPRS / EDGE: 1900: 1850 ~ 1910 MHz WCDMA Band II: 1852.4 ~ 1907.6 MHz WCDMA Band V: 826.4 ~ 846.6 MHz			· 849 MHz O ~ 1910 MHz 6 MHz	
GSM: GMSK GPRS: GMSK Modulation Technique EDGE: 8PSK WCDMA: Quadrature Phase Shift Keying (QPSK) with Root-raised cosine pulse shaping filters (roll off =				
Antenna Gain	GSM / GPRS / EDGE 850 MHz: -0.5 dBi GSM / GPRS / EDGE 1900 MHz: 1.0 dBi WCDMA band II: 1.0 dBi WCDMA band V: -0.5 dBi			-0.5 dBi
Intenna Type PIFA Antenna				

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: NM8JDBS filing to comply with Part 22 and Part 24 of the FCC 47 CFR Rules.

Page 4 Rev. 00

Date of Issue: February 11, 2009

Mode	ERP Power (dBm)	Type of Emission
GSM 850MHz	30.68	247KGXW
GPRS 850MHz	27.97	248KGXW
EDGE 850MHz	21.46	250KG7W
WCDMA Band V	23.08	4M16F9W
WCDMA HSDPA Band V	23.38	4M17F9W

Mode	EIRP Power (dBm)	Type of Emission
GSM 1900MHz	32.51	247KGXW
GPRS 1900MHz	31.29	246KGXW
EDGE 1900MHz	27.25	245KG7W
WCDMA Band II	27.88	4M17F9W
WCDMA HSDPA Band II	28.88	4M18F9W

Page 5 Rev. 00

Date of Issue: February 11, 2009

3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4: 2003, TIA/EIA-603-C and FCC CFR 47, Part 2, PART 22 SUBPART H AND PART 24 SUBPART E

Date of Issue: February 11, 2009

3.1EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003.

Page 6 Rev. 00

3.4DESCRIPTION OF TEST MODES

The EUT (model: JADE130) comes with two batteries, for sale. After the preliminary test, the EUT with battery (TWS) was found to emit the worst emissions and therefore had been tested under operating condition.

Date of Issue: February 11, 2009

EUT staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

GSM / GPRS / EDGE 850:

Channel Low (CH128), Channel Mid (CH190) and Channel High (CH251) were chosen for full testing.

GSM / GPRS / EDGE 1900:

Channel Low (CH512), Channel Mid (CH661) and Channel High (CH810) were chosen for full testing.

WCDMA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

WCDMA / HSDPA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA / HSDPA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) for power line conducted emission testing and the worst case was recorded.

Based on the above results from the different modulations, GSM850 / GSM1900 / GPRS 850 / GPRS1900 / EDGE 850 / EDGE 1900 / WCDMA Band II / WCDMA Band V / HSDPA Band II / HSDPA Band V were determined to be the worst-case scenario for all tests.

The worst emission was found:

in lie-down (X axis) for GSM1900 / GPRS 850 / EDGE 850 / EDGE 1900 / WCDMA Band II / HSDPA Band II / HSDPA Band V.

and

in lie-down (Y axis) for GSM850 / GPRS 1900 / WCDMA Band V.

Page 7 Rev. 00

4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

Date of Issue: February 11, 2009

Page 8 Rev. 00

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

Conducted Emissions Test Site				
Name of Equipment Manufacturer Model		Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	02/24/2009
Power Meter	Agilent	E4416A	GB41291611	04/06/2009
Power Sensor	Agilent	E9327A	US40441097	06/19/2009
Temp. / Humidity Chamber	Terchy	MHG-150LF	930619	08/06/2009
DC Power Source	Agilent	E3640A	MY40001774	01/09/2010

Date of Issue: February 11, 2009

3M Semi Anechoic Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510252	09/10/2009
Test Receiver	Rohde & Schwarz	ESCI	100064	11/30/2009
Switch Controller	TRC	Switch Controller	SC94050010	05/03/2009
4 Port Switch	TRC	4 Port Switch	SC94050020	05/03/2009
Horn-Antenna	TRC	HA-0502	06	06/04/2009
Horn-Antenna	TRC	HA-0801	04	06/19/2009
Bilog- Antenna	Sunol Sciences	JB3	A030205	03/28/2009
Loop Antenna	EMCO	6502	8905/2356	05/29/2009
Turn Table	Max-Full	MFT-120S	T120S940302	N.C.R.
Antenna Tower	Max-Full	MFA-430	A440940302	N.C.R.
Controller	Max-Full	MF-CM886	CC-C-1F-13	N.C.R.
Site NSA	CCS	N/A	FCC MRA: TW1039 IC: IC 2324G-1/-2	10/17/2010 11/04/2010
Reject Filter	Micro-Tronics	HPM13194	003	04/24/2009
S.G.	HP	83630B	3844A01022	04/17/2009
Substituted Dipole	Schwazbeck	VHAP/UHAP	998 +999/ 981+982	06/09/2009
Substituted Horn	EMCO	3115	00022257	12/16/2009
Test S/W	Test S/W LABVIEW (V 6.1)			

Powerline Conducted Emissions Test Site					
Name of Equipment Manufacturer Model Serial Number Calibration Due					
EMI Test Receiver 9kHz-30MHz	Rohde & Schwarz	ESHS30	828144/003	11/18/2009	
Two-Line V-Network 9kHz-30MHz	Schaffner	NNB41	03/10013	06/11/2009	
LISN 10kHz-100MHz	EMCO	3825/2	9106-1809	04/09/2009	
Test S/W	LABVIEW (V 6.1)				

Page 9 Rev. 00

4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 2.81
3M Semi Anechoic Chamber / 30MHz ~ 1GHz	+/-3.7046
3M Semi Anechoic Chamber / Above 1GHz	+/-3.0958

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Date of Issue: February 11, 2009

Page 10 Rev. 00

5. FACILITIES AND ACCREDITATIONS

5.1FACILITIES

All	measurement facilities used to collect the measurement data are located at
	No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C. Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
	No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
	No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan Tel: 886-3-324-0332 / Fax: 886-3-324-5235
	e sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4: and CISPR Publication 22.

5.2EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Page 11 Rev. 00

Date of Issue: February 11, 2009

5.3TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	Testing Laboratory 1309
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	Canada IC 2324G-1 IC 2324G-2

Date of Issue: February 11, 2009

Page 12 Rev. 00

^{*} No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

Date of Issue: February 11, 2009

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Universal Radio Communication tester (Remote)	R&S	CMU 200	1100.000.8.02	N/A	N/A	Unshielded, 1.8m

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

Page 13 Rev. 00

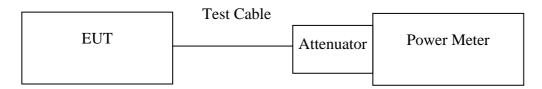
7. FCC PART 22 & 24 REQUIREMENTS

7.1 PEAK POWER

LIMIT

According to FCC §2.1046.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TEST RESULTS

No non-compliance noted.

Page 14 Rev. 00

Date of Issue: February 11, 2009

Test Data

Test Mode	СН	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Peak Power (dBm)
GSM 850 (Class B)	128	824.20	32.72		32.72
	190	836.60	32.60	0.0	32.60
,	251	848.80	32.89		*32.89
	128	824.20	32.72		32.72
GPRS 850 (Class 10)	190	836.60	32.71	0.0	32.71
	251	848.80	32.78		*32.78
	128	824.20	26.02		26.02
EDGE 850 (Class 10)	190	836.60	26.12	0.0	26.12
	251	848.80	26.42]	*26.42

Test Mode	СН	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Peak Power (dBm)
GSM 1900 (Class B)	512	1850.20	29.20		*29.20
	661	1880.00	29.15	0.0	29.15
,	810	1909.80	29.10		29.10
	512	1850.20	29.22		*29.22
GPRS 1900 (Class 10)	661	1880.00	29.16	0.0	29.16
(810	1909.80	29.13		29.13
	512	1850.20	24.41		24.41
EDGE 1900 (Class 10)	661	1880.00	24.39	0.0	24.39
	810	1909.80	24.51		*24.51

Remark: The value of factor includes both the loss of cable and external attenuator

Page 15 Rev. 00

Test Mode	СН	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Peak Power (dBm)
	9262	1852.40	24.12		24.12
WCDMA (BAND II)	9400	1880.00	24.33	0.0	*24.33
	9538	1907.60	23.92		23.92
	4132	826.40	24.95		*24.95
WCDMA (BAND V)	4183	836.60	24.73	0.0	24.73
(===:\2 \)	4233	846.60	24.51		24.51

Test Mode	СН	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Peak Power (dBm)
WCDMA/	1852.40	9262	24.07		24.07
HSDPA	1880.00	9400	24.36	0.0	*24.36
(BAND II)	1907.60	9538	24.10		24.10
WCDMA/	826.40	4132	25.31		25.31
HSDPA	836.60	4183	25.41	0.0	25.41
(BAND V)	846.60	4233	25.48		*25.48

Remark: The value of factor includes both the loss of cable and external attenuator

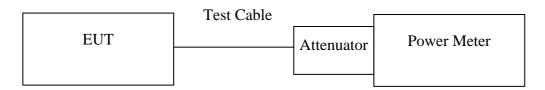
Page 16 Rev. 00

7.2 AVERAGE POWER

LIMIT

For reporting purposes only.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

TEST RESULTS

No non-compliance noted.

Page 17 Rev. 00

Date of Issue: February 11, 2009

824.20

836.60

848.80

824.20

836.60

848.80

Test Data

GPRS 850

(Class 12)

EDGE 850

(Class 12)

128

190

251

128

190

251

Power Meter Reading Attenuator **Frequency Average Power Test Mode** \mathbf{CH} (MHz) (dBm) (dB)(dBm) 128 32.59 824.20 32.59 **GSM** 850 0.0 190 32.48 32.48 836.60 (Class B) 251 848.80 32.78 *32.78

32.60

32.52

32.78

25.82

25.94

26.31

Date of Issue: February 11, 2009

32.60

32.52

*32.78

25.82

25.94

*26.31

0.0

0.0

Test Mode	СН	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Average Power (dBm)
	512	1850.20	29.14		*29.14
GSM 1900 (Class B)	661	1880.00	28.94	0.0	28.94
()	810	1909.80	28.93		28.93
	512	1850.20	29.10		*29.10
GPRS 1900 (Class 12)	661	1880.00	28.89	0.0	28.89
,	810	1909.80	28.78		28.78
	512	1850.20	24.12		24.12
EDGE 1900 (Class 12)	661	1880.00	24.19	0.0	24.19
(Class 12)	810	1909.80	24.39		*24.39

Remark: The value of factor includes both the loss of cable and external attenuator

Page 18 Rev. 00

Test Mode	СН	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Average Power (dBm)
	9262	1852.40	20.44		20.44
WCDMA (BAND II)	9400	1880.00	20.62	0.0	*20.62
(======)	9538	1907.60	20.28		20.28
	4132	826.40	21.31		*21.31
WCDMA (BAND V)	4183	836.60	21.16	0.0	21.16
,,	4233	846.60	20.93		20.93

Test Mode	СН	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Average Power (dBm)
WCDMA/	9262	1852.40	21.92		*21.92
HSDPA	9400	1880.00	21.65	0.0	21.65
(BAND II)	9538	1907.60	21.51		21.51
WCDMA/	4132	826.40	22.86		*22.86
HSDPA	4183	836.60	22.78	0.0	22.78
(BAND V)	4233	846.60	22.60		22.60

Remark: The value of factor includes both the loss of cable and external attenuator

Page 19 Rev. 00

7.3 ERP & EIRP MEASUREMENT

LIMIT

According to FCC §2.1046

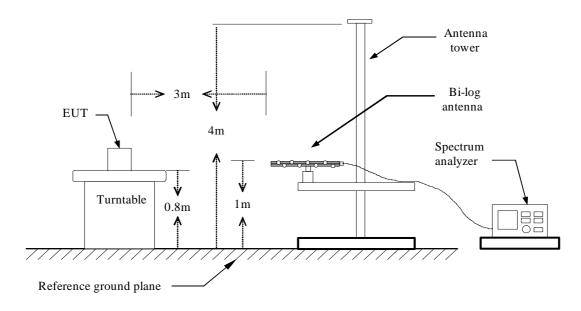
FCC 22.913(b): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

Date of Issue: February 11, 2009

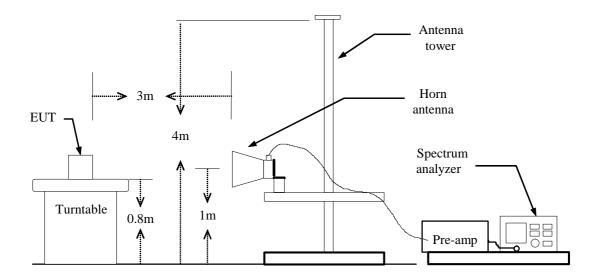
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

Test Configuration

Below 1 GHz

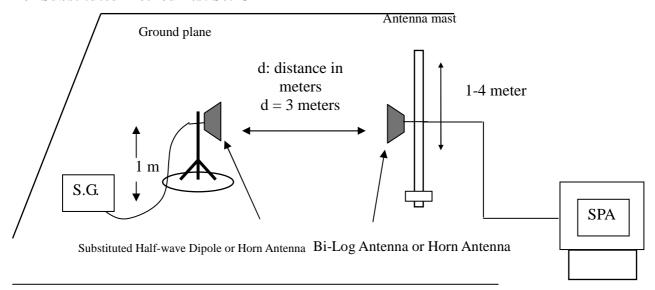


Above 1 GHz



Page 20 Rev. 00

For Substituted Method Test Set-UP



TEST PROCEDURE

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable (dB) EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

TEST RESULTS

No non-compliance noted.

Page 21 Rev. 00

GSM 850 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	128	824.06	V	-15.89	36.28	20.39	38.50	-18.11
		824.30	Н	-7.54	36.22	28.68	38.50	-9.82
X	190	836.48	V	-15.65	36.35	20.70	38.50	-17.80
Λ	190	836.66	Н	-7.88	36.38	28.50	38.50	-10.00
	251	848.96	V	-15.55	36.45	20.91	38.50	-17.59
	251	848.84	Н	-8.53	36.53	28.00	38.50	-10.50
	128	824.00	V	-15.72	36.28	20.55	38.50	-17.95
		824.18	Н	-8.40	36.22	27.81	38.50	-10.69
Y	190	836.66	V	-15.56	36.36	20.80	38.50	-17.70
1		836.78	Н	-5.71	36.38	*30.68	38.50	-7.82
	251	848.78	V	-16.01	36.45	20.44	38.50	-18.06
	231	848.66	Н	-6.74	36.53	29.79	38.50	-8.71
	128	824.12	V	-8.94	36.28	27.33	38.50	-11.17
	120	824.30	Н	-18.52	36.22	17.69	38.50	-20.81
Z	190	836.66	V	-8.46	36.36	27.90	38.50	-10.60
L	190	836.48	Н	-18.08	36.38	18.30	38.50	-20.20
	251	848.66	V	-7.67	36.45	28.78	38.50	-9.72
	231	848.78	Н	-16.98	36.53	19.55	38.50	-18.95

GPRS 850 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	128	824.18	V	-15.48	36.28	20.80	38.50	-17.70
	120	824.18	Н	-8.28	36.22	27.94	38.50	-10.56
X	190	836.54	V	-15.08	36.35	21.27	38.50	-17.23
Λ	190	836.66	Н	-8.41	36.38	*27.97	38.50	-10.53
	251	848.84	V	-15.14	36.45	21.31	38.50	-17.19
	251	848.84	Н	-9.03	36.53	27.50	38.50	-11.00
	128	824.36	V	-19.37	36.28	16.91	38.50	-21.59
		824.54	Н	-8.84	36.22	27.38	38.50	-11.12
Y	190	836.54	V	-19.52	36.35	16.83	38.50	-21.67
1		836.66	Н	-9.27	36.38	27.11	38.50	-11.39
	251	849.08	V	-18.94	36.45	17.51	38.50	-20.99
	231	848.66	Н	-10.20	36.53	26.33	38.50	-12.17
	128	824.06	V	-8.91	36.28	27.37	38.50	-11.13
	120	824.18	Н	-19.37	36.22	16.84	38.50	-21.66
Z	190	836.60	V	-8.40	36.36	27.96	38.50	-10.54
	190	836.60	Н	-18.51	36.38	17.87	38.50	-20.63
	251	848.84	V	-9.10	36.45	27.35	38.50	-11.15
	231	848.84	Н	-17.10	36.53	19.43	38.50	-19.07

Page 22 Rev. 00

GSM 1900 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1	512	1850.30	V	-21.32	42.27	20.96	33.00	-12.04
		1850.00	Н	-11.95	42.51	30.57	33.00	-2.43
X	661	1879.80	V	-20.91	42.16	21.25	33.00	-11.75
Λ	661	1879.80	Н	-9.95	42.46	*32.51	33.00	-0.49
	810	1909.70	V	-20.44	42.49	22.05	33.00	-10.95
	810	1909.70	Н	-9.50	41.37	31.87	33.00	-1.13
	512	1850.20	V	-12.55	42.49	29.94	33.00	-3.06
		1849.90	Н	-18.21	41.28	23.07	33.00	-9.93
Y	661	1879.80	V	-11.23	42.49	31.26	33.00	-1.74
1		1879.80	Н	-15.98	41.32	25.34	33.00	-7.66
	810	1909.70	V	-10.28	42.49	32.21	33.00	-0.79
	810	1909.70	Н	-20.91 42.16 21 -9.95 42.46 *3 -20.44 42.49 22 -9.50 41.37 31 -12.55 42.49 29 -18.21 41.28 23 -11.23 42.49 31 -15.98 41.32 25 -10.28 42.49 32 -15.30 41.37 26 -14.20 42.49 28 -14.77 41.28 26 -12.86 42.49 29 -14.00 41.32 25 -12.79 42.49 29	26.07	33.00	-6.93	
	512	1850.10	V	-14.20	42.49	28.29	33.00	-4.71
	312	1850.20	Н	-14.77	41.28	26.51	33.00	-6.49
Z	661	1880.10	V	-12.86	42.49	29.64	33.00	-3.36
	661	1880.00	Н	-14.00	41.32	27.32	33.00	-5.68
	910	1909.90	V	-12.79	42.49	29.70	33.00	-3.30
	810	1909.70	Н	-14.32	41.37	27.05	33.00	-5.95

GPRS 1900 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	512	1850.10	V	-23.53	42.27	18.75	33.00	-14.25
		1850.10	Н	-13.79	42.51	28.72	33.00	-4.28
X	661	1880.10	V	-22.37	42.49	20.13	33.00	-12.87
Λ	001	1880.10	Н	-11.95	42.46	30.51	33.00	-2.49
	810	1909.60	V	-22.11	42.49	20.39	33.00	-12.61
	810	1909.70	Н	-11.32	41.37	30.04	33.00	-2.96
	512	1849.70	V	-12.73	42.49	29.76	33.00	-3.24
		1850.10	Н	-17.42	41.28	23.86	33.00	-9.14
Y	661	1880.00	V	-11.30	42.49	31.19	33.00	-1.81
1		1880.10	Н	-16.43	41.32	24.90	33.00	-8.10
	810	1909.70	V	-11.20	42.49	*31.29	33.00	-1.71
	810	1909.90	Н	-17.25	41.37	24.12	33.00	-8.88
	512	1850.10	V	-15.31	42.49	27.18	33.00	-5.82
	312	1850.30	Н	-16.77	41.28	24.51	33.00	-8.49
Z	661	1880.00	V	-14.16	42.49	28.34	33.00	-4.66
L	001	1880.00	Н	-15.62	41.32	25.70	33.00	-7.30
	810	1909.90	V	-13.98	42.49	28.51	33.00	-4.49
	010	1909.90	Н	-19.36	41.37	22.00	33.00	-11.00

Page 23 Rev. 00

EDGE 850 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	128	824.00	V	-20.64	36.28	15.64	38.50	-22.86
	120	824.18	Н	-15.78	36.22	20.44	38.50	-18.06
X	190	836.66	V	-20.08	36.36	16.28	38.50	-22.22
^	190	836.78	Н	-14.92	36.38	*21.46	38.50	-17.04
	251	848.84	V	-24.15	36.45	12.30	38.50	-26.20
	231	848.84	Н	-15.37	36.53	21.16	38.50	-17.34
	128	824.30	V	-28.49	36.28	7.79	38.50	-30.71
	120	824.06	Н	-15.86	36.22	20.35	38.50	-18.15
Y	190	836.36	V	-26.65	36.35	9.70	38.50	-28.80
1	190	836.66	Н	-15.60	36.38	20.78	38.50	-17.72
	251	848.96	V	-26.13	36.45	10.32	38.50	-28.18
	231	848.78	Н	-15.90	36.53	20.63	38.50	-17.87
	128	824.18	V	-16.89	36.28	19.38	38.50	-19.12
	120	824.06	Н	-21.85	36.22	14.37	38.50	-24.13
Z	190	836.48	V	-17.13	36.35	19.23	38.50	-19.27
Z	190	836.60	Н	-22.48	36.38	13.90	38.50	-24.60
	251	848.84	V	-15.77	36.45	20.68	38.50	(dB) -22.86 -18.06 -22.22 -17.04 -26.20 -17.34 -30.71 -18.15 -28.80 -17.72 -28.18 -17.87 -19.12 -24.13 -19.27
	231	848.78	Н	-20.86	36.53	15.67	38.50	-22.83

EDGE 1900 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	512	1850.10	V	-25.92	42.49	16.57	33.00	-16.43
	312	1850.20	Н	-16.00	41.28	25.28	33.00	-7.72
X	661	1880.00	V	-25.31	42.49	17.18	33.00	(dB)
Λ	001	1880.00	Н	-14.07	41.32	*27.25	33.00	-5.75
	810	1909.60	V	-25.45	42.49	17.05	33.00	-15.95
	810	1909.60	Н	-15.25	42.38	27.13	33.00	-5.87
	512	1849.90	V	-16.77	42.49	25.72	33.00	-7.28
	312	1850.20	Н	-20.48	41.28	20.80	33.00	-12.20
Y	661	1879.80	V	-15.68	42.49	26.82	33.00	-6.18
1	001	1880.00	Н	-19.37	41.32	21.95	33.00	-11.05
	810	1909.60	V	-15.97	42.49	26.53	33.00	-6.47
	810	1909.70	Н	-19.91	41.37	21.46	33.00	-11.54
	512	1850.20	V	-18.81	42.49	23.68	33.00	-9.32
	312	1850.10	Н	-17.87	41.28	23.41	33.00	-9.59
Z	661	1880.00	V	-18.02	42.49	24.47	33.00	-15.95 -5.87 -7.28 -12.20 -6.18 -11.05 -6.47 -11.54 -9.32 -9.59 -8.53 -9.15
L	001	1880.10	Н	-17.47	41.32	23.85	33.00	-9.15
	810	1909.60	V	-17.46	42.49	25.04	33.00	-7.96
	010	1910.10	Н	-22.60	41.37	18.77	33.00	-14.23

Page 24 Rev. 00

WCDMA BAND II Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	9262	1852.40	V	-26.24	42.26	16.02	33.00	-16.98
	9202	1852.40	Н	-16.18	42.50	26.33	33.00	-6.67
X	9400	1880.00	V	-23.89	42.16	18.27	33.00	(dB)
Λ	9400	1880.00	Н	-15.02	42.46	27.44	33.00	-5.56
	9538	1907.60	V	-24.25	42.05	17.81	33.00	-15.19
	9336	1907.60	Н	-14.52	42.39	*27.88	33.00	-5.12
	9262	1852.40	V	-16.79	42.26	25.47	33.00	-7.53
	9202	1852.40	Н	-22.97	42.50	19.54	33.00	-13.46
Y	9400	1880.00	V	-14.97	42.16	27.19	33.00	-5.81
1	9400	1880.00	Н	-21.01	42.46	21.45	33.00	-11.55
	9538	1907.60	V	-14.97	42.05	27.08	33.00	(dB) -16.98 -6.67 -14.73 -5.56 -15.19 -5.12 -7.53 -13.46 -5.81 -11.55 -5.92 -11.38 -9.78 -9.73 -8.43 -8.38 -7.98
	9336	1907.60	Н	-20.78	42.39	21.62	33.00	
	9262	1852.40	V	-19.05	42.26	23.22	33.00	-9.78
	9202	1852.40	Н	-19.24	42.50	23.27	33.00	-9.73
Z	9400	1880.00	V	-17.59	42.16	24.57	33.00	-8.43
	9400	1880.00	Н	-17.84	42.46	24.62	33.00	-8.38
	9538	1907.60	V	-17.03	42.05	25.02	33.00	-7.98
	9336	1907.60	Н	-17.66	42.39	24.73	33.00	-8.27

WCDMA BAND V Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	4132	826.40	V	-24.97	35.59	10.62	38.50	-27.88
	4132	826.40	Н	-15.91	35.09	19.18	38.50	-19.32
X	4183	836.60	V	-24.14	36.36	12.22	38.50	3m) (dB) .50 -27.88 .50 -19.32 .50 -26.28 .50 -26.28 .50 -18.45 .50 -24.35 .50 -16.85 .50 -27.50 .50 -16.87 .50 -27.86 .50 -16.87 .50 -22.40 .50 -15.42 .50 -19.16 .50 -22.52 .50 -19.09 .50 -23.16 .50 -16.03
Λ	4103	836.60	Н	-16.34	36.39	20.05	38.50	-18.45
	4233	846.60	V	-22.27	36.42	14.15	38.50	-24.35
	4233	846.60	Н	-14.84	36.49	21.65	38.50	n) (dB) 0 -27.88 0 -19.32 0 -26.28 0 -18.45 0 -24.35 0 -16.85 0 -27.50 0 -16.87 0 -27.86 0 -16.87 0 -22.40 0 -15.42 0 -19.16 0 -22.52 0 -19.09 0 -23.16 0 -16.03
	4132	826.40	V	-25.30	36.30	11.00	38.50	-27.50
	4132	826.40	Н	-14.63	36.26	21.63	38.50	-16.87
Y	4183	836.60	V	-25.71	36.36	10.64	38.50	-27.86
1	4103	836.60	Н	-14.75	36.39	21.63	38.50	-16.87
	4233	846.60	V	-20.34	36.44	16.10	38.50	-22.40
	4233	846.60	Н	-13.40	36.49	*23.08	38.50	-15.42
	4122	826.40	V	-16.95	36.30	19.34	38.50	-19.16
	4132	826.40	Н	-20.28	36.26	15.98	38.50	-22.52
7	4183	836.60	V	-16.95	36.36	19.41	38.50	-19.09
Z	4103	836.60	Н	-21.04	36.39	15.34	38.50	-23.16
	1222	846.60	V	-13.95	36.42	22.47	38.50	-16.03
	4233	846.60	Н	-18.20	36.49	18.29	38.50	-20.21

Page 25 Rev. 00

HSDPA BAND II Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	9262	1852.40	V	-26.32	42.26	15.94	33.00	-17.06
	9202	1852.40	Н	-15.44	42.50	27.06	33.00	-5.94
X	9400	1880.00	V	-22.67	42.17	19.50	33.00	(dB)
Λ	9400	1880.00	Н	-13.58	42.46	*28.88	33.00	-4.12
	9538	1907.60	V	-22.53	42.05	19.51	33.00	-13.49
	9336	1907.60	Н	-13.58	42.39	28.81	33.00	n) (dB) 0 -17.06 0 -5.94 0 -13.50 0 -4.12 0 -13.49 0 -4.19 0 -7.29 0 -12.58 0 -4.73 0 -10.98 0 -5.14 0 -8.61 0 -8.84 0 -7.20 0 -7.99 0 -7.37
	9262	1852.40	V	-16.56	42.26	25.71	33.00	(dB) -17.06 -5.94 -13.50 -4.12 -13.49 -4.19 -7.29 -12.58 -4.73 -10.98 -5.14 -10.42 -8.61 -8.84 -7.20 -7.99 -7.37
	9202	1852.40	Н	-22.08	42.50	20.42	33.00	-12.58
Y	9400	1880.00	V	-13.89	42.17	28.27	33.00	-17.06 -5.94 -13.50 -4.12 -13.49 -4.19 -7.29 -12.58 -4.73 -10.98 -5.14 -10.42 -8.61 -8.84 -7.20 -7.99
1	9400	1880.00	Н	-20.45	42.46	22.02	33.00	-10.98
	9538	1907.60	V	-14.19	42.05	27.86	33.00	-5.14
		1907.60	Н	-19.81	42.39	22.58	33.00	-10.42
	9262	1852.40	V	-17.87	42.26	24.39	33.00	-8.61
	9202	1852.40	Н	-18.34	42.50	24.16	33.00	-8.84
Z	9400	1880.00	V	-16.37	42.17	25.80	33.00	-7.20
L	9400	1880.00	Н	-17.46	42.46	25.01	33.00	-7.99
	9538	1907.60	V	-16.41	42.05	25.63	33.00	-7.37
	9338	1907.60	Н	-17.14	42.40	25.25	33.00	-7.75

HSDPA BAND V Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
	4132	826.40	V	-20.41	36.30	15.89	38.50	-22.61
	4132	826.40	Н	-13.74	36.26	22.52	38.50	-15.98
X	4183	836.60	V	-20.51	36.36	15.85	38.50	(dB)
Λ	4103	836.60	Н	-14.05	36.39	22.34	38.50	-16.16
	4233	846.60	V	-19.72	36.42	16.71	38.50	-21.79
	4233	846.60	Н	-13.18	36.49	23.31	38.50	-15.19
	4132	826.40	V	-26.05	36.30	10.25	38.50	-22.61 -15.98 -22.65 -16.16 -21.79 -15.19 -28.25 -16.03 -28.99 -16.34 -26.67 -15.12 -18.44 -22.20 -18.49 -22.47 -16.66
	4132	826.40	Н	-13.79	36.26	22.47	38.50	-16.03
Y	4183	836.60	V	-26.85	36.36	9.51	38.50	-21.79 -15.19 -28.25 -16.03 -28.99 -16.34 -26.67 -15.12
1	4103	836.60	Н	-14.23	36.39	22.16	38.50	-16.34
	4222	846.60	V	-24.59	36.42	11.83	38.50	-26.67
	4233	846.60	Н	-13.11	36.49	*23.38	38.50	-15.12
	4132	826.40	V	-16.24	36.30	20.06	38.50	-18.44
	4132	826.40	Н	-19.96	36.26	16.30	38.50	-22.20
Z	4183	836.60	V	-16.35	36.36	20.01	38.50	-16.03 -28.99 -16.34 -26.67 -15.12 -18.44 -22.20 -18.49
Z	4103	836.60	Н	-20.37	36.40	16.03	38.50	-22.47
	4233	846.60	V	-14.58	36.42	21.84	38.50	-16.66
	4233	846.60	Н	-17.55	36.49	18.93	38.50	-19.57

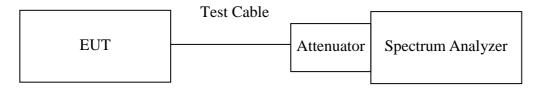
Page 26 Rev. 00

7.4 OCCUPIED BANDWIDTH MEASUREMENT

LIMIT

According to §FCC 2.1049.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW is set to 3 times the RBW, -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

No non-compliance noted.

Page 27 Rev. 00

Date of Issue: February 11, 2009

Test Data

Test Mode	СН	Frequency (MHz)	99% Bandwidth (kHz)
	128	824.200	247.5923
GSM 850 (Class B)	190	836.600	247.0351
, ,	251	848.800	244.0177
	128	824.200	243.3503
GPRS 850 (Class 12)	190	836.600	246.8900
(,	251	848.800	248.4079
	128	824.200	244.1881
EDGE 850 (Class B)	190	836.570	250.0753
,	251	848.800	244.5237
	512	1850.210	244.5268
GSM 1900 (Class B)	661	1880.000	247.0245
, ,	810	1909.823	247.4168
	512	1850.210	246.9396
GPRS 1900 (Class 12)	661	1880.000	244.7668
	810	1909.823	241.1131
	512	1850.173	245.7096
EDGE 1900 (Class 12)	661	1880.000	243.4001
,	810	1909.800	244.2674

Page 28 Rev. 00

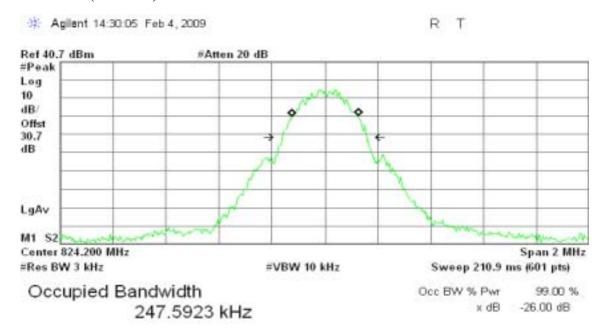
99% Bandwidth **Frequency Test Mode** \mathbf{CH} (MHz) (MHz) 1852.40 4.1423 9262 WCDMA 9400 1880.00 4.1765 (Band II) 9538 1907.60 4.1493 4132 826.404.1480**WCDMA** 4183 836.60 4.1656 (Band V) 846.60 4233 4.1661 9262 1852.40 4.1751 WCDMA/ **HSDPA** 9400 1880.00 4.1821 (BAND II) 9538 1907.60 4.1722 4132 826.40 4.1593 WCDMA/ **HSDPA** 4183 836.60 4.1676 (BAND V) 4233 846.60 4.1709

Page 29 Rev. 00

Date of Issue: February 11, 2009

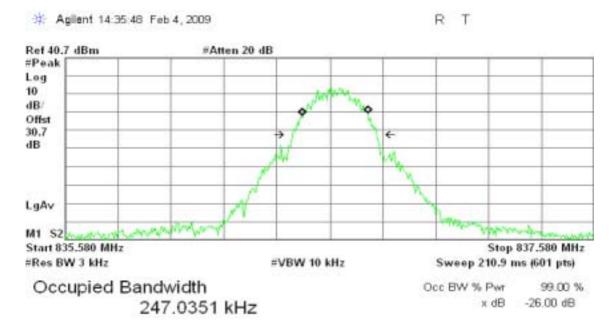
Test Plot

GSM 850 (CH Low)



Transmit Freq Error 1.341 kHz x dB Bandwidth 317.142 kHz

GSM 850 (CH Mid)



Transmit Freq Error 18.979 kHz x dB Bandwidth 316.203 kHz

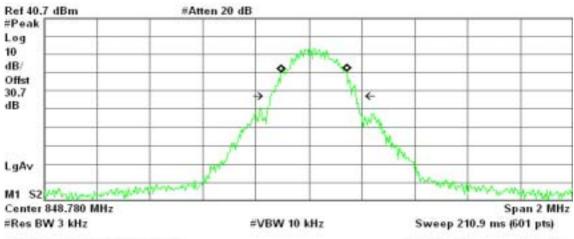
Page 30 Rev. 00

FCC ID: NM8JDBS Date of Issue: February 11, 2009

GSM 850 (CH High)



RT



Occupied Bandwidth 244.0177 kHz Occ BW % Pwr 99.00 %

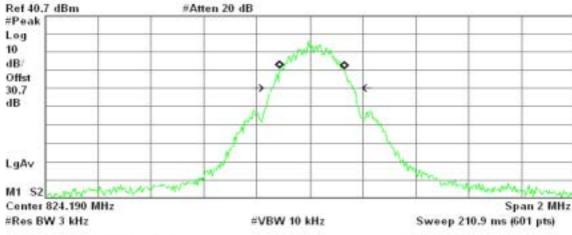
x dB -26.00 dB

Transmit Freq Error 20.172 kHz x dB Bandwidth 317.388 kHz

GPRS 850 (CH Low)

3 Agillent 15:03:47 Feb 4, 2009

RT



Occupied Bandwidth 243.3503 kHz

Occ BW % Pwr x dB -26.00 dB

99.00 %

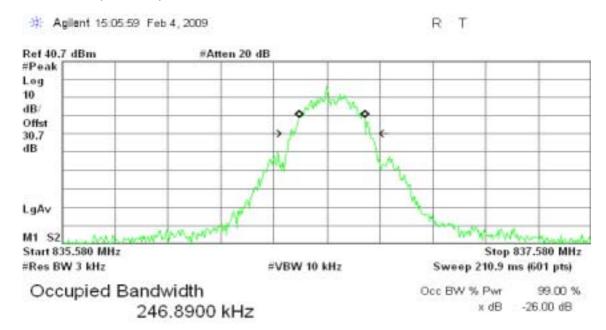
Transmit Freq Error x dB Bandwidth

9.219 kHz 304.211 kHz

> Page 31 Rev. 00

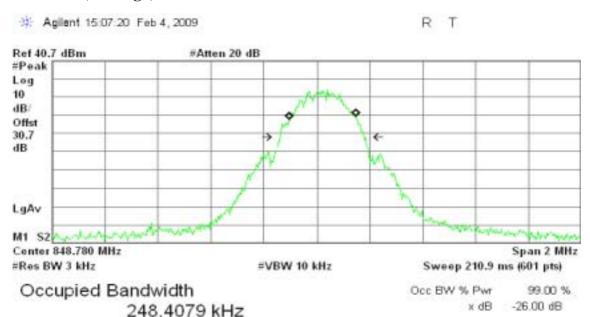
FCC ID: NM8JDBS Date of Issue: February 11, 2009

GPRS 850 (CH Mid)



Transmit Freq Error 19.536 kHz x dB Bandwidth 297.340 kHz

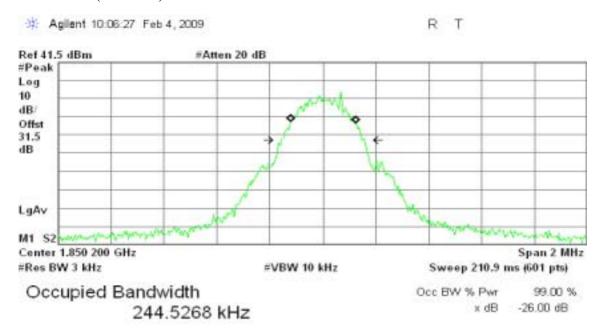
GPRS 850(CH High)



Transmit Freg Error 22.036 kHz x dB Bandwidth 317.070 kHz

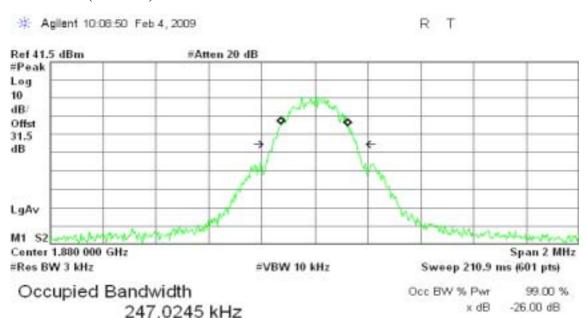
> Page 32 Rev. 00

GSM 1900 (CH Low)



Transmit Freq Error 1.274 kHz x dB Bandwidth 312.785 kHz

GSM 1900 (CH Mid)



Transmit Freq Error -1.844 kHz x dB Bandwidth 316.906 kHz

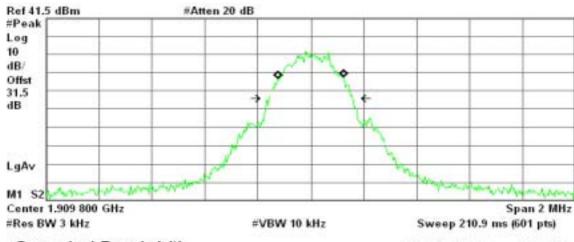
Page 33 Rev. 00

FCC ID: NM8JDBS Date of Issue: February 11, 2009

GSM 1900 (CH High)



RT



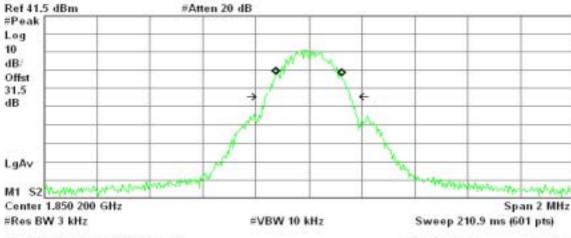
Occupied Bandwidth 247.4168 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 927.849 Hz x dB Bandwidth 312:205 kHz

GPRS 1900 (CH Low)

Agilent 13:17:02 Feb 4, 2009

RT



Occupied Bandwidth 246.9396 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -81.809 Hz x dB Bandwidth 317.441 kHz

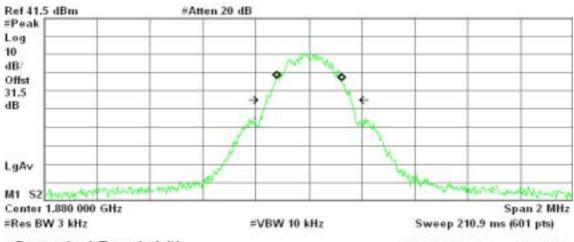
> Page 34 Rev. 00

GPRS 1900 (CH Mid)



RT

Date of Issue: February 11, 2009



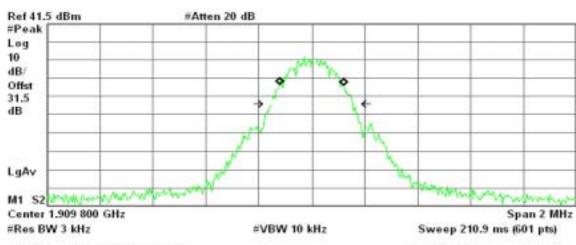
Occupied Bandwidth 244.7668 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 942.565 Hz x dB Bandwidth 313.636 kHz

GPRS 1900 (CH High)

Agilent 13:22:46 Feb 4, 2009

RT



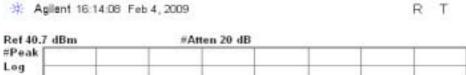
Occupied Bandwidth 241.1131 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

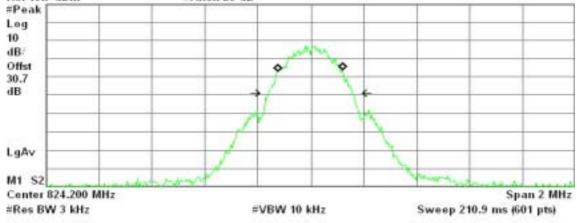
Transmit Freq Error -83.769 Hz x dB Bandwidth 303.793 kHz

Page 35 Rev. 00

FCC ID: NM8JDBS Date of Issue: February 11, 2009

EDGE 850 (CH Low)



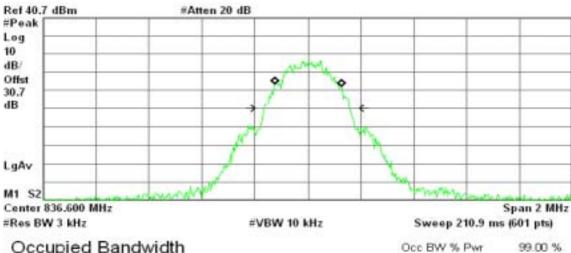


Occupied Bandwidth 244.1881 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -1.678 kHz x dB Bandwidth 316.650 kHz

EDGE 850 (CH Mid)





Occupied Bandwidth 250.0753 kHz

x dB -26.00 dB

Transmit Freq Error 547.279 Hz x dB Bandwidth 321.557 kHz

> Page 36 Rev. 00

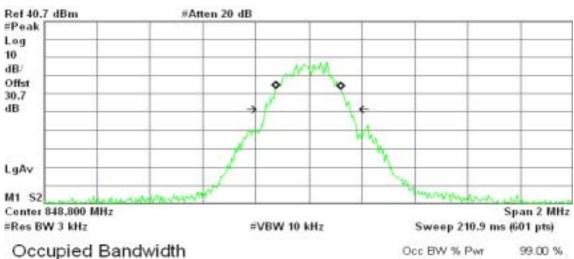
EDGE 850 (CH High)



3 Agilent 16:16:14 Feb 4, 2009

RT

Date of Issue: February 11, 2009



244.5237 kHz

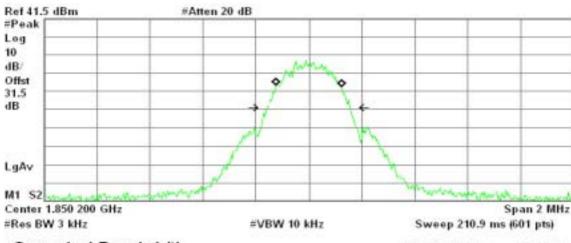
Occ BW % Pwr x dB -26.00 dB

Transmit Freq Error -1.046 kHz x dB Bandwidth 319.486 kHz

EDGE 1900 (CH Low)

Agilent 13:38:22 Feb 4, 2009

RT



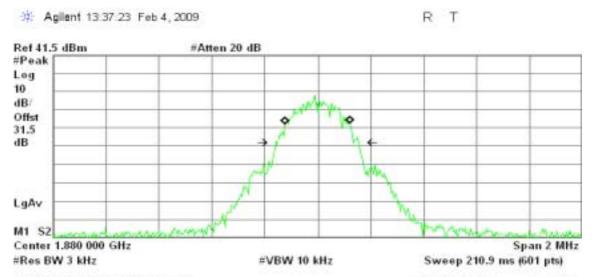
Occupied Bandwidth 245.7096 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -148.608 Hz x dB Bandwidth 311.233 kHz

> Page 37 Rev. 00

FCC ID: NM8JDBS Date of Issue: February 11, 2009

EDGE 1900 (CH Mid)

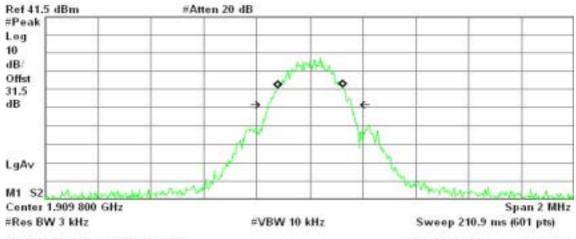


Occupied Bandwidth 243,4001 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -896.104 Hz x dB Bandwidth 311.967 kHz

EDGE 1900 (CH High)





Occupied Bandwidth 244.2674 kHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 1.945 kHz 310.354 kHz x dB Bandwidth

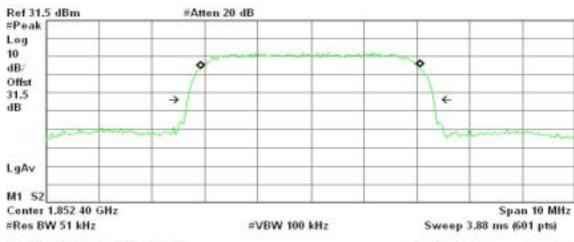
> Page 38 Rev. 00

5201-RP3 FCC ID: NM8JDBS Date of Issue: February 11, 2009

WCDMA Band II (CH Low)



RT



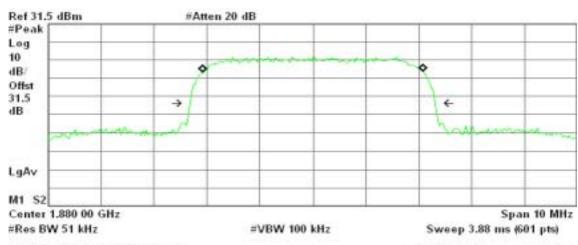
Occupied Bandwidth 4.1423 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -4.978 kHz x dB Bandwidth 4.651 MHz

WCDMA Band II (CH Mid)

Agilent 10:01:28 Feb 6, 2009

RT



Occupied Bandwidth 4.1765 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -2.622 kHz x dB Bandwidth 4.634 MHz

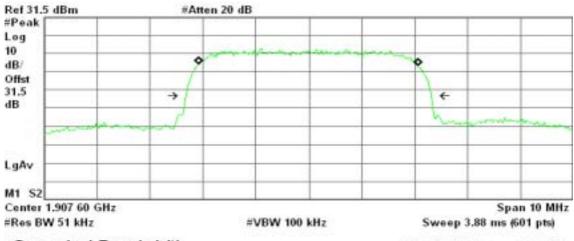
Page 39 Rev. 00

WCDMA Band II (CH High)



RT

Date of Issue: February 11, 2009



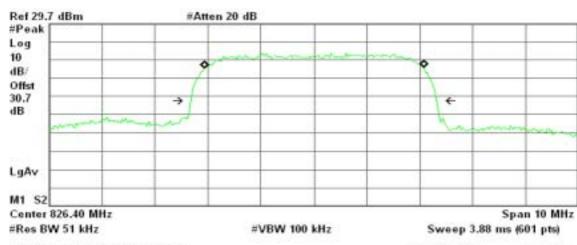
Occupied Bandwidth 4.1493 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -9.416 kHz x dB Bandwidth 4.636 MHz

WCDMA Band V (CH Low)

Agilent 12:18:55 Feb 6, 2009

RT



Occupied Bandwidth 4.1480 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

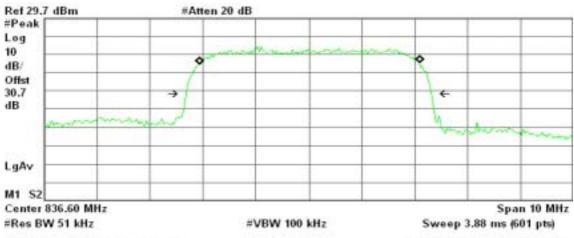
Transmit Freq Error 4.484 kHz x dB Bandwidth 4.649 MHz

Page 40 Rev. 00

WCDMA Band V (CH Mid)



RT



Occupied Bandwidth 4.1656 MHz Occ BW % Pwr 99.00 %

x dB -26.00 dB

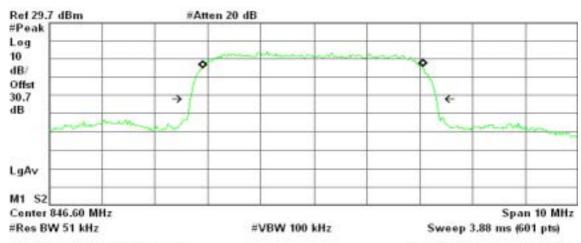
Date of Issue: February 11, 2009

Transmit Freq Error 8.993 kHz x dB Bandwidth 4.645 MHz

WCDMA Band V (CH High)

Agilent 12:37:51 Feb 6, 2009

RT



Occupied Bandwidth 4.1661 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

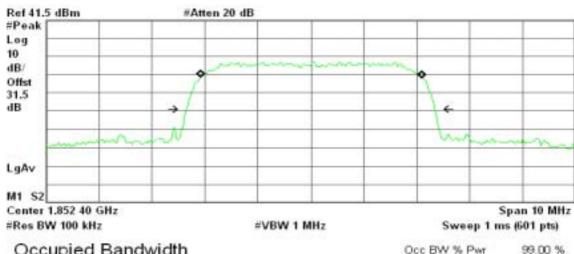
Transmit Freq Error -24.269 kHz x dB Bandwidth 4.651 MHz

Page 41 Rev. 00

WCDMA / HSDPA Band II (CH Low)



RT



Occupied Bandwidth 4.1751 MHz Occ BW % Pwr

x dB -26.00 dB

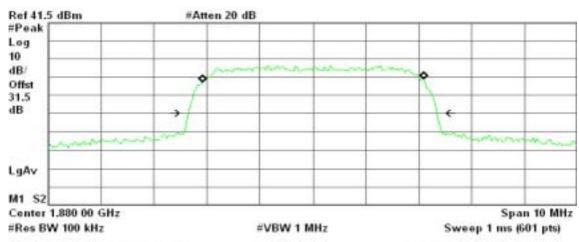
Date of Issue: February 11, 2009

Transmit Freq Error 11.868 kHz x dB Bandwidth 4.693 MHz

WCDMA / HSDPA Band II (CH Mid)

Agilent 14:00:15 Feb 6, 2009

RL



Occupied Bandwidth 4.1821 MHz Occ BW % Pwr x dB

99.00 % -26.00 dB

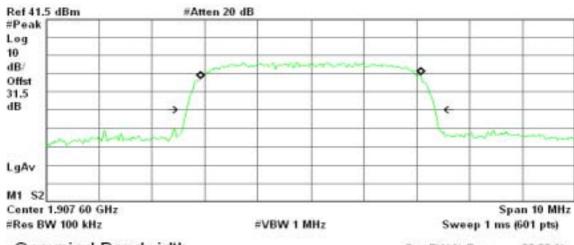
Transmit Freg Error 2.531 kHz x dB Bandwidth 4.693 MHz

> Page 42 Rev. 00

WCDMA / HSDPA Band II (CH High)



RT



Occupied Bandwidth 4.1722 MHz Occ BW % Pwr

99.00 %

Date of Issue: February 11, 2009

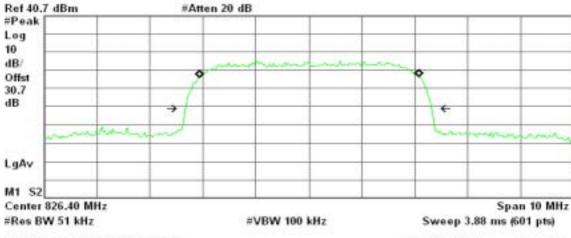
x dB -26.00 dB

Transmit Freq Error -4.178 kHz x dB Bandwidth 4.694 MHz

WCDMA / HSDPA Band V (CH Low)

Agilent 14:27:02 Feb 6, 2009

RT



Occupied Bandwidth 4.1593 MHz Occ BW % Pwr x dB -26.00 dB

99.00 %

Transmit Freg Error x dB Bandwidth

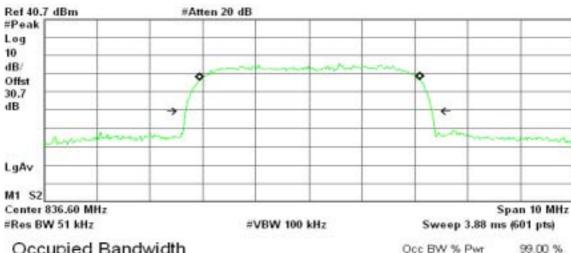
9.048 kHz 4.653 MHz

> Page 43 Rev. 00

WCDMA / HSDPA Band V (CH Mid)



RL



Occupied Bandwidth 4.1676 MHz Occ BW % Pwr

x dB -26.00 dB

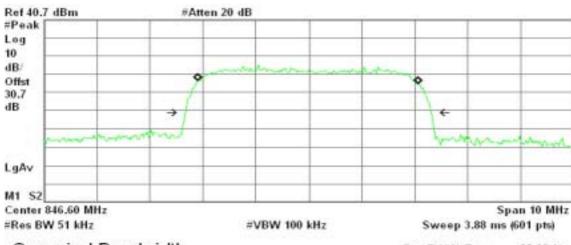
Date of Issue: February 11, 2009

Transmit Freq Error 16.766 kHz x dB Bandwidth 4.652 MHz

WCDMA / HSDPA Band V (CH High)

Agillent 14:32:46 Feb 6, 2009

RT



Occupied Bandwidth 4.1709 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freg Error -17.551 kHz x dB Bandwidth 4.644 MHz

> Page 44 Rev. 00

7.5 OUT OF BAND EMISSION AT ANTENNA TERMINALS

LIMIT

According to FCC §2.1051, FCC §22.917, FCC §24.238(a).

<u>Out of Band Emissions:</u> The mean power of emission must be attenuated below the mean power of the non-modulated carrier (P) on any frequency twice or more than twice the fundamental frequency by at lease 43 + 10 log P dB.

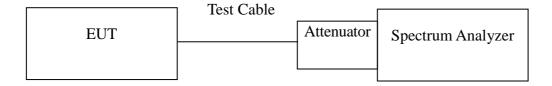
Date of Issue: February 11, 2009

Mobile Emissions in Base Frequency Range: The mean power of any emissions appearing in the base station frequency range from cellular mobile transmitters operated must be attenuated to a level not exceed –80 dBm at the transmit antenna connector.

Band Edge Requirements: In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at lease 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the Out of band Emission

Test Configuration

Out of band emission at antenna terminals:



TEST PROCEDURE

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements (824 MHz and 849 MHz /1850MHz and 1910MHz): In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

TEST RESULTS

No non-compliance noted.

Page 45 Rev. 00

Test Data

Mode	СН	Location	Description
GSM 850 (Class B)	128	Figure 7-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 7-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 7-3	Conducted spurious emissions, 30MHz - 20GHz
GPRS 850 (Class 12)	128	Figure 7-4	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 7-5	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 7-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
GSM 1900 (Class B)	512	Figure 8-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 8-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 8-3	Conducted spurious emissions, 30MHz - 20GHz
GPRS 1900 (Class 12)	512	Figure 8-4	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 8-5	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 8-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
GSM 850 (Class B)	128	Figure 9-1	Band Edge emissions
	251	Figure 9-2	Band Edge emissions
GPRS 850 (Class 12)	128	Figure 9-3	Band Edge emissions
	251	Figure 9-4	Band Edge emissions

Mode	СН	Location	Description
GSM 1900 (Class B)	512	Figure 10-1	Band Edge emissions
	810	Figure 10-2	Band Edge emissions
GPRS 1900 (Class 12)	512	Figure 10-3	Band Edge emissions
	810	Figure 10-4	Band Edge emissions

Page 46 Rev. 00

Mode	СН	Location	Description
EDGE 850 (Class 12)	128	Figure 11-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 11-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 11-3	Conducted spurious emissions, 30MHz - 20GHz
EDGE 1900 (Class 12)	512	Figure 11-4	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 11-5	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 11-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
EDGE 850 (Class 12)	128	Figure 12-1	Band Edge emissions
	251	Figure 12-2	Band Edge emissions
EDGE 1900 (Class 12)	512	Figure 12-3	Band Edge emissions
	810	Figure 12-4	Band Edge emissions

Page 47 Rev. 00

Mode	СН	Location	Description
WCDMA (Band II)	9262	Figure 13-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 13-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 13-3	Conducted spurious emissions, 30MHz - 20GHz
WCDMA (Band V)	4132	Figure 13-4	Conducted spurious emissions, 30MHz - 20GHz
	4183	Figure 13-5	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 13-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
WCDMA (Band II)	9262	Figure 14-1	Band Edge emissions
	9538	Figure 14-2	Band Edge emissions
WCDMA (Band V)	4132	Figure 14-3	Band Edge emissions
	4233	Figure 14-4	Band Edge emissions

Mode	СН	Location	Description
HSDPA WCDMA (Band II)	9262	Figure 15-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 15-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 15-3	Conducted spurious emissions, 30MHz - 20GHz
HSDPA WCDMA (Band V)	4132	Figure 15-4	Conducted spurious emissions, 30MHz - 20GHz
	4183	Figure 15-5	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 15-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	СН	Location	Description
HSDPA WCDMA	9262	Figure 16-1	Band Edge emissions
(Band II)	9538	Figure 16-2	Band Edge emissions
HSDPA	4132	Figure 16-3	Band Edge emissions
WCDMA (Band V)	4233	Figure 16-4	Band Edge emissions

Page 48 Rev. 00

Test Plot

GSM 850

Figure 7-1: Out of Band emission at antenna terminals – GSM CH Low

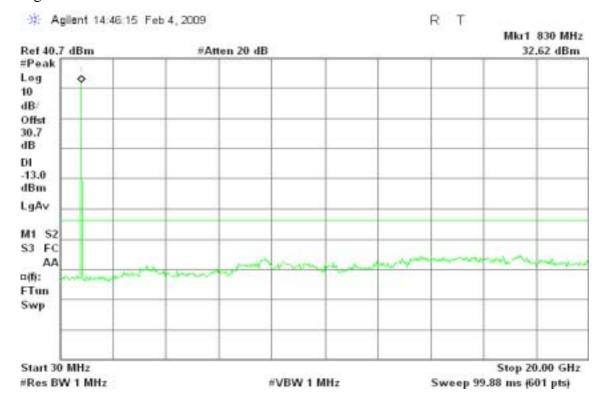
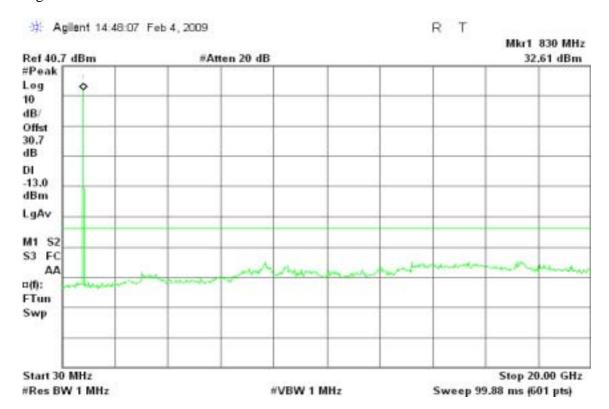


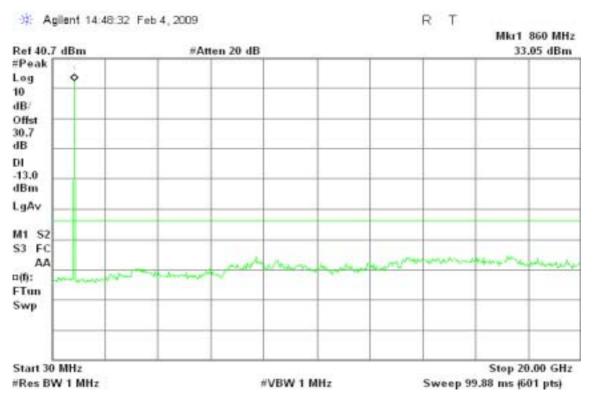
Figure 7-2: Out of Band emission at antenna terminals – GSM CH Mid



Page 49 Rev. 00

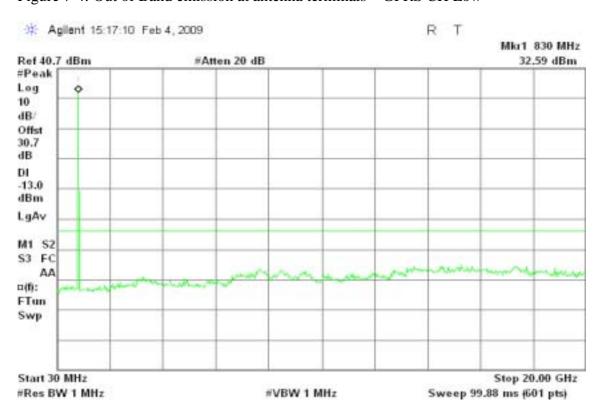
Date of Issue: February 11, 2009

Figure 7-3: Out of Band emission at antenna terminals – GSM CH High



GPRS 850

Figure 7-4: Out of Band emission at antenna terminals – GPRS CH Low



Page 50 Rev. 00

Date of Issue: February 11, 2009

Figure 7-5: Out of Band emission at antenna terminals – GPRS CH Mid

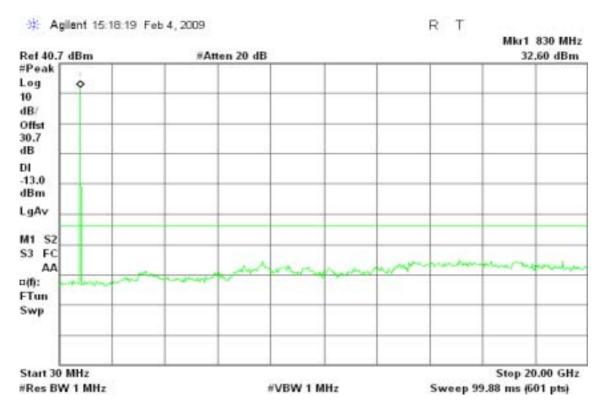
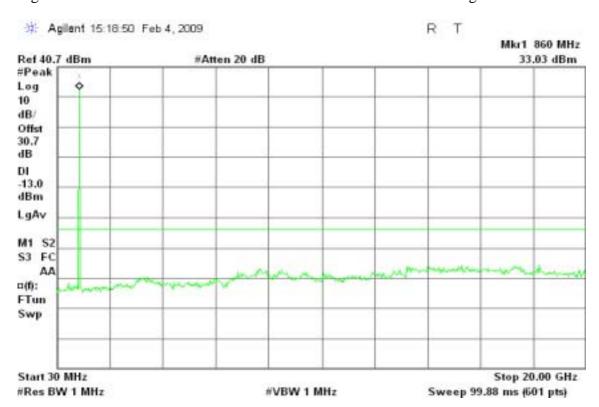


Figure 7-6: Out of Band emission at antenna terminals – GPRS CH High



Page 51 Rev. 00

GSM 1900

Figure 8-1: Out of Band emission at antenna terminals – GSM CH Low

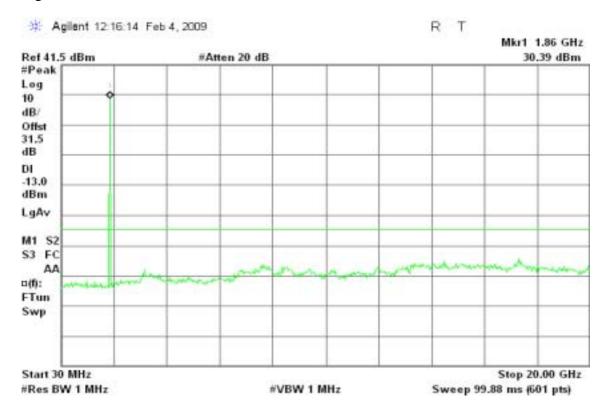
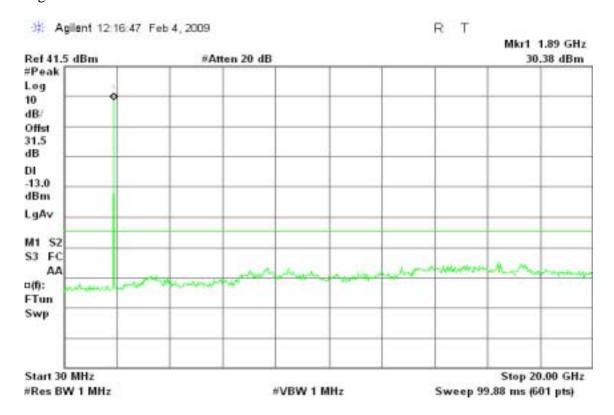
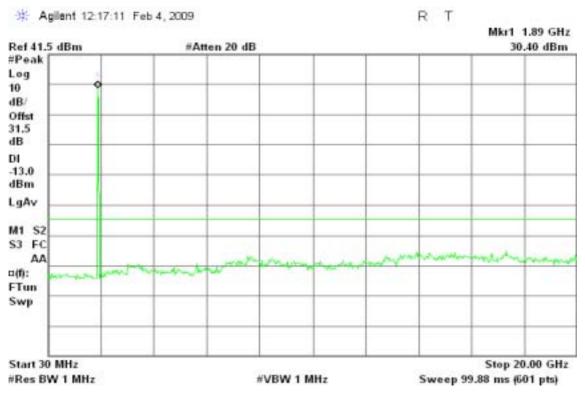


Figure 8-2: Out of Band emission at antenna terminals – GSM CH Mid



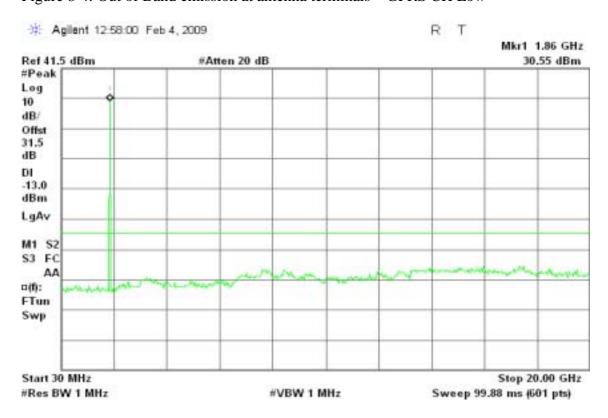
Page 52 Rev. 00

Figure 8-3: Out of Band emission at antenna terminals – GSM CH High



GPRS 1900

Figure 8-4: Out of Band emission at antenna terminals – GPRS CH Low



Page 53 Rev. 00

Figure 8-5: Out of Band emission at antenna terminals – GPRS CH Mid

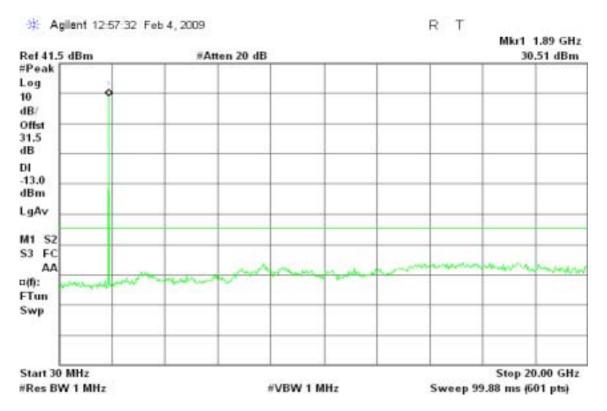
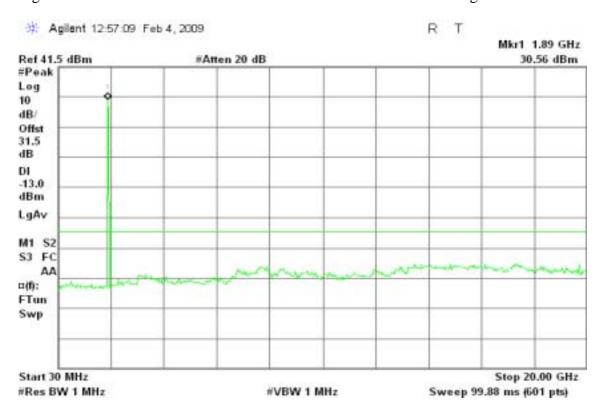


Figure 8-6: Out of Band emission at antenna terminals – GPRS CH High



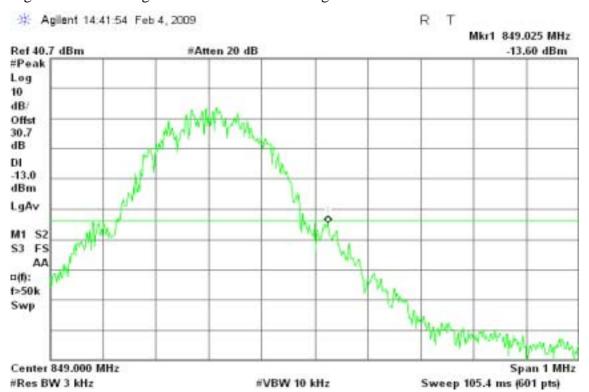
Page 54 Rev. 00

GSM 850

Figure 9-1: Band Edge emissions – GSM CH Low



Figure 9-2: Band Edge emissions – GSM CH High



Page 55 Rev. 00

GPRS 850

Figure 9-3: Band Edge emissions – GPRS CH Low

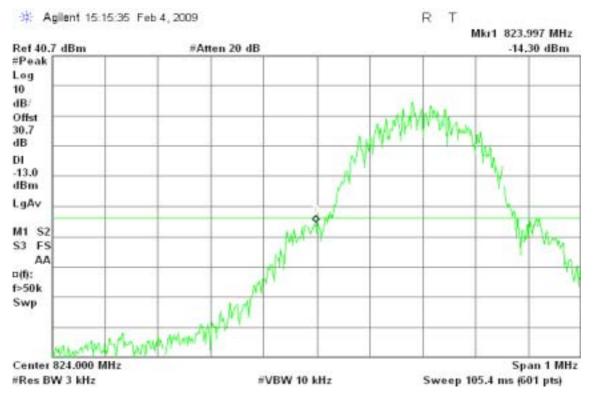
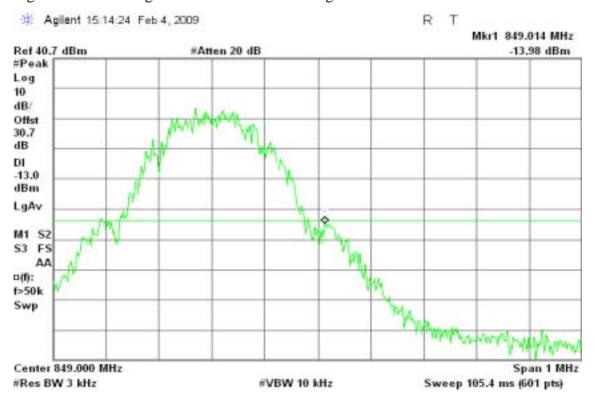


Figure 9-4: Band Edge emissions –GPRS CH High



Page 56 Rev. 00

C ID: NM8JDBS Date of Issue: February 11, 2009

GSM 1900

Figure 10-1: Band Edge emissions – GSM CH Low

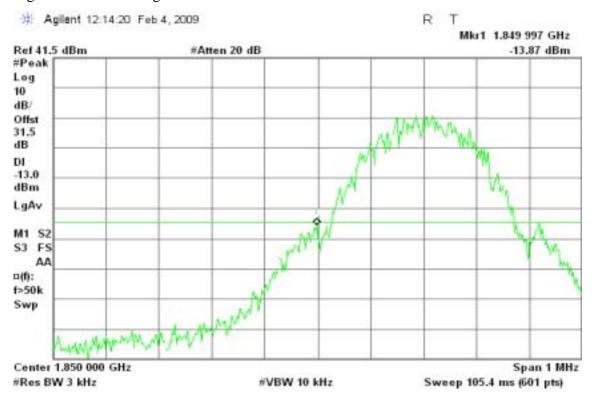
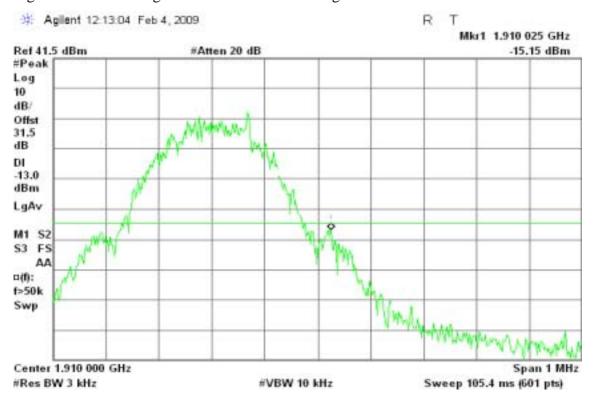


Figure 10-2: Band Edge emissions – GSM CH High



Page 57 Rev. 00

GPRS 1900

Figure 10-3: Band Edge emissions – GPRS CH Low

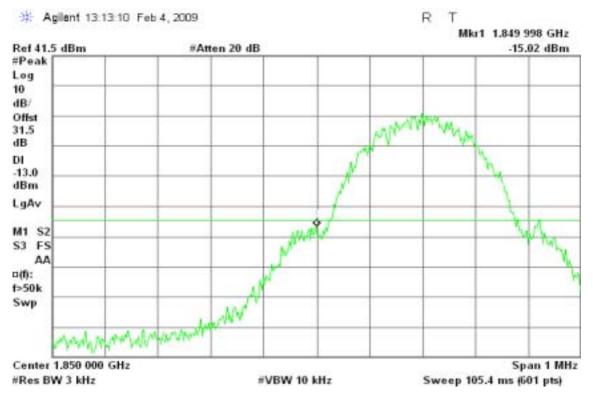
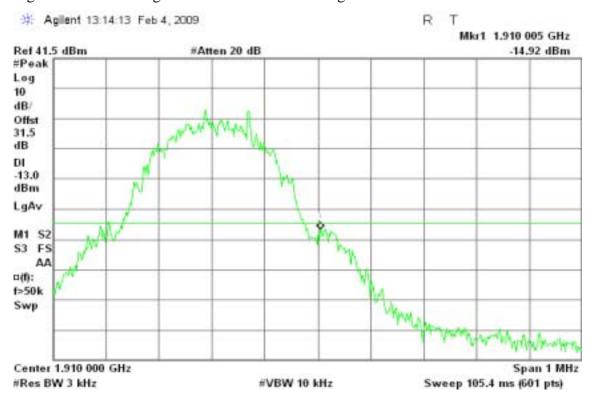


Figure 10-4: Band Edge emissions – GPRS CH High



Page 58 Rev. 00



EDGE 850

Figure 11-1: Out of Band emission at antenna terminals –EDGE CH Low

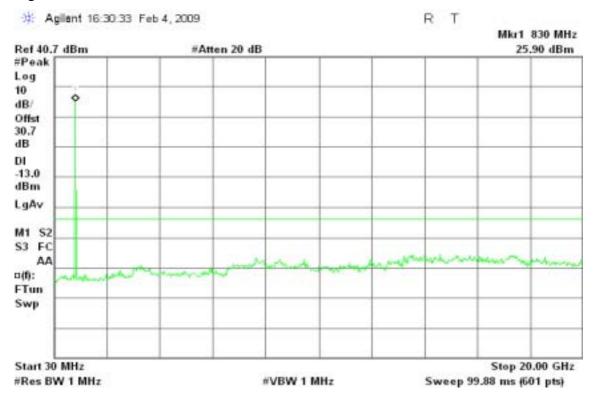
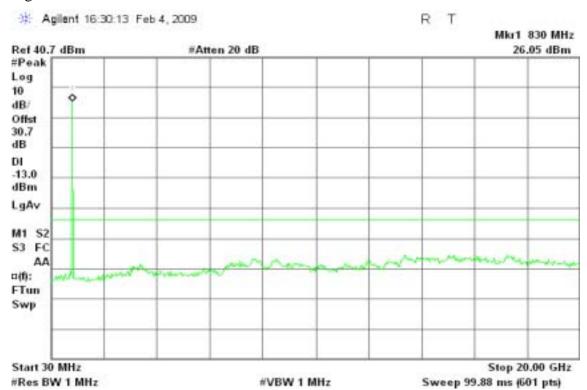


Figure 11-2: Out of Band emission at antenna terminals –EDGE CH Mid



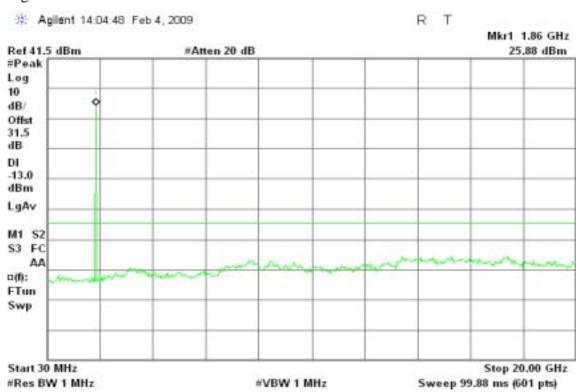
Page 59 Rev. 00

Figure 11-3: Out of Band emission at antenna terminals -EDGE CH High



EDGE 1900

Figure 11-4: Out of Band emission at antenna terminals –EDGE CH Low



Page 60 Rev. 00

Figure 11-5: Out of Band emission at antenna terminals -EDGE CH Mid

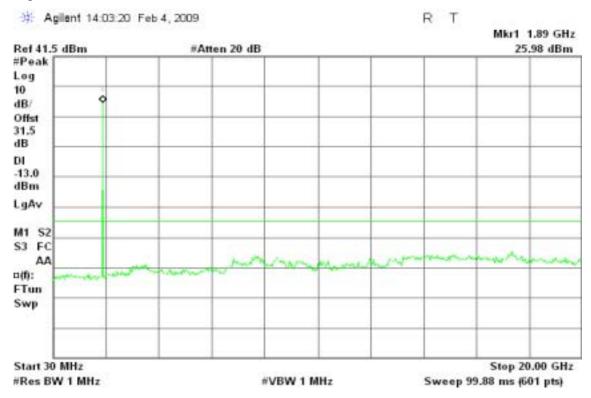
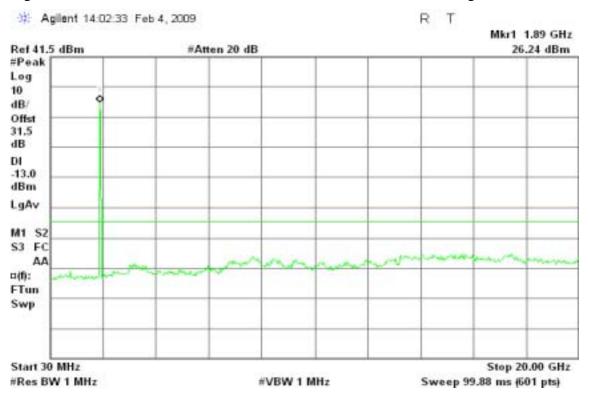


Figure 11-6: Out of Band emission at antenna terminals –EDGE CH High



Page 61 Rev. 00

EDGE 850

Figure 12-1: Band Edge emissions – EDGE CH Low

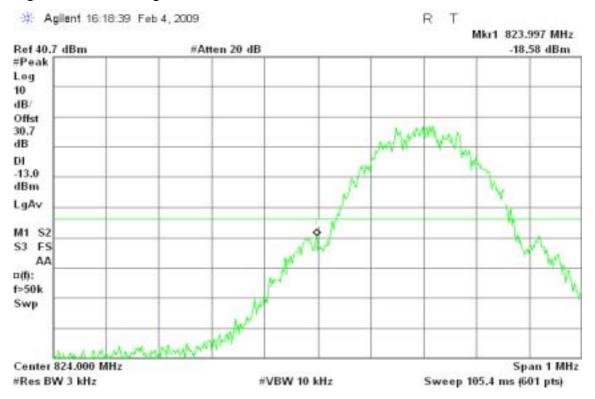
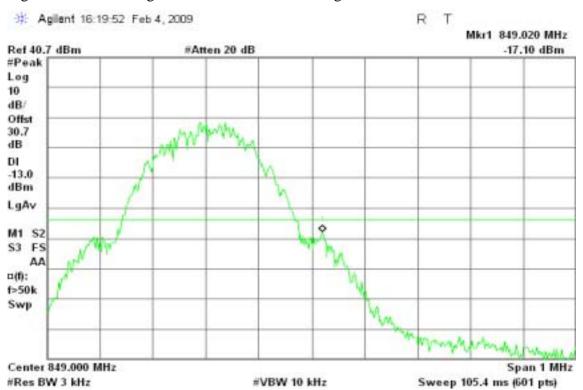


Figure 12-2: Band Edge emissions – EDGE CH High



Page 62 Rev. 00

C ID: NM8JDBS Date of Issue: February 11, 2009

EDGE 1900

Figure 12-3: Band Edge emissions – EDGE CH Low

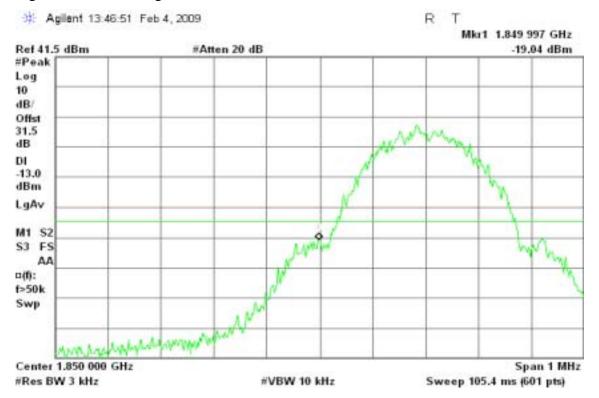
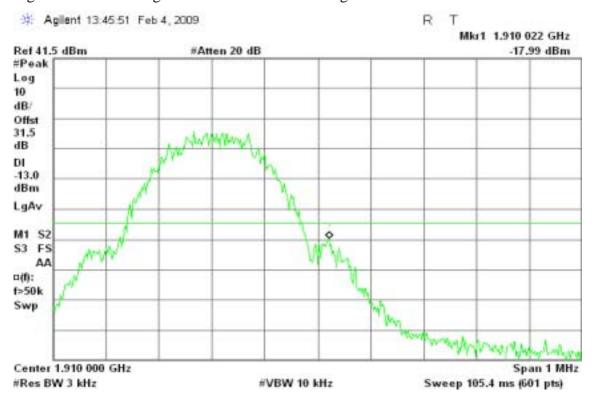


Figure 12-4: Band Edge emissions – EDGE CH High



Page 63 Rev. 00

WCDMA Band II

Figure 13-1: Out of Band emission at antenna terminals – WCDMA CH Low

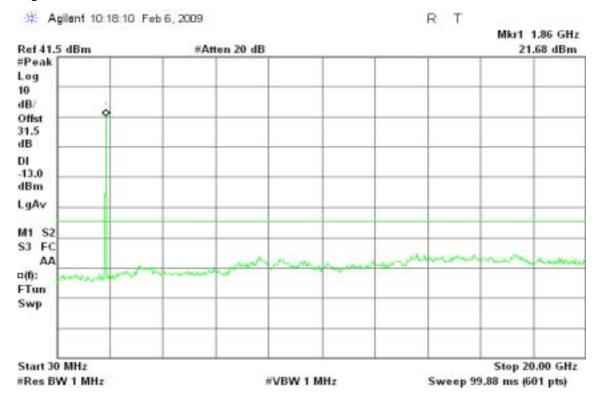
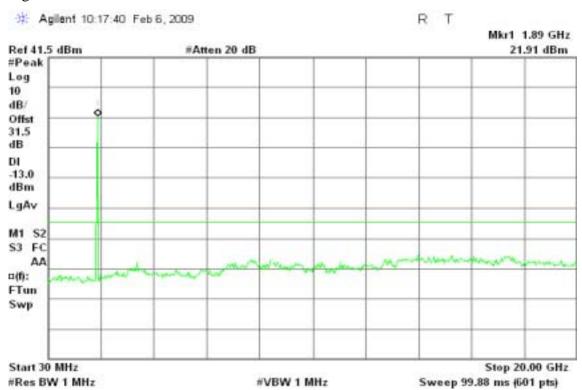


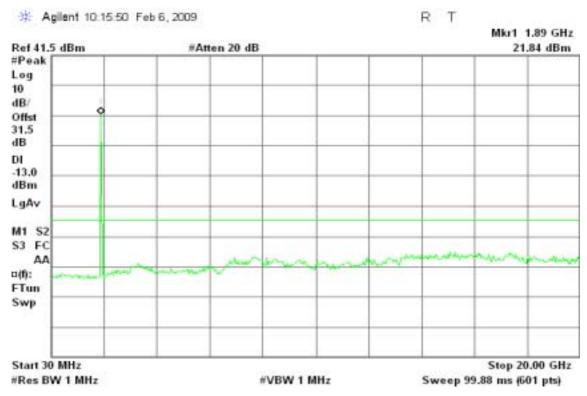
Figure 13-2: Out of Band emission at antenna terminals – WCDMA CH Mid



Page 64 Rev. 00

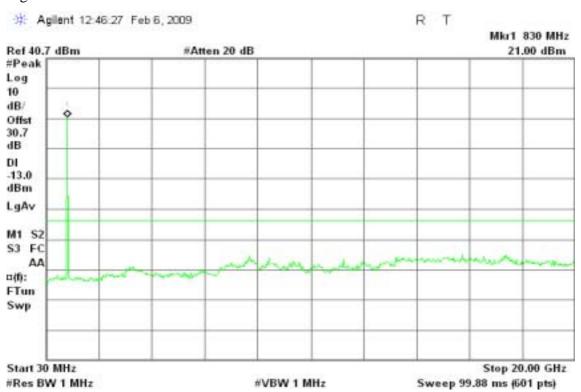
Date of Issue: February 11, 2009

Figure 13-3: Out of Band emission at antenna terminals – WCDMA CH High



WCDMA Band V

Figure 13-4: Out of Band emission at antenna terminals – WCDMA CH Low



Page 65 Rev. 00

Figure 13-5: Out of Band emission at antenna terminals – WCDMA CH Mid

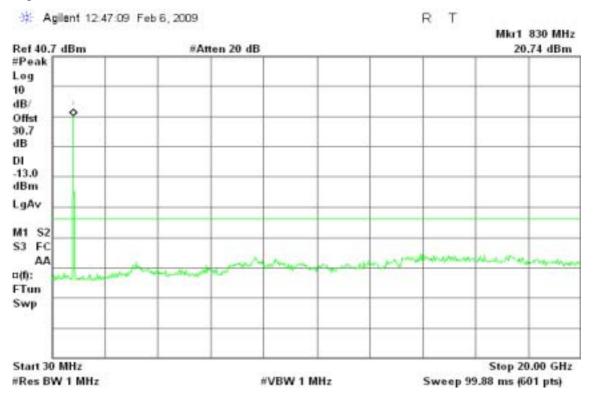
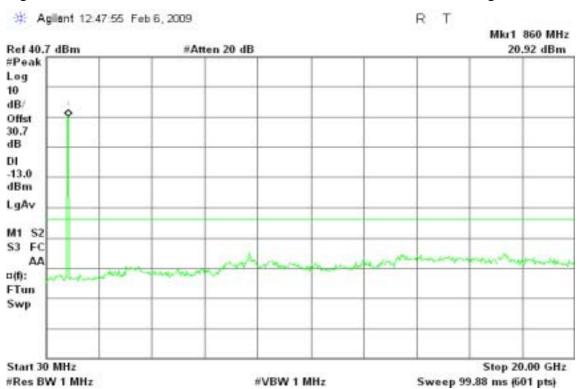


Figure 13-6: Out of Band emission at antenna terminals – WCDMA CH High



Page 66 Rev. 00

WCDMA Band II

Figure 14-1: Band Edge emissions – WCDMA CH Low

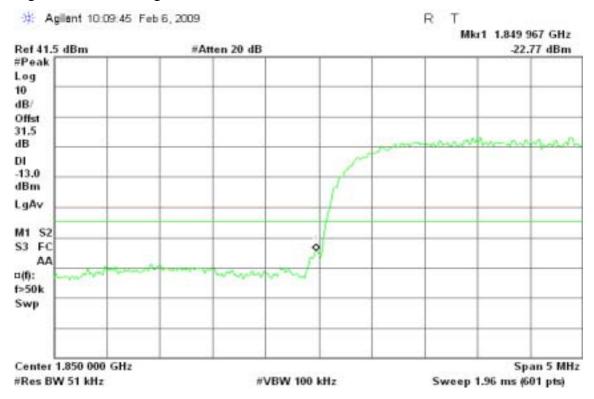
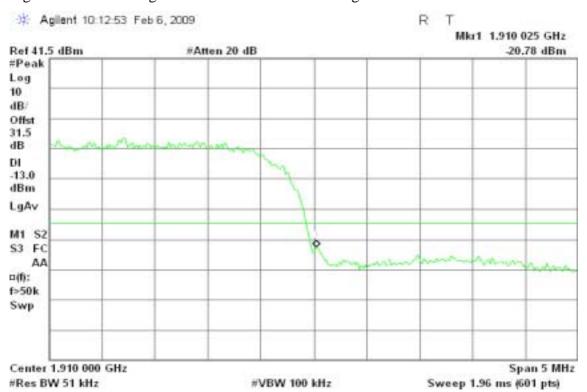


Figure 14-2: Band Edge emissions –WCDMA CH High



Page 67 Rev. 00

Date of Issue: February 11, 2009

WCDMA Band V

Figure 14-3: Band Edge emissions –WCDMA CH Low

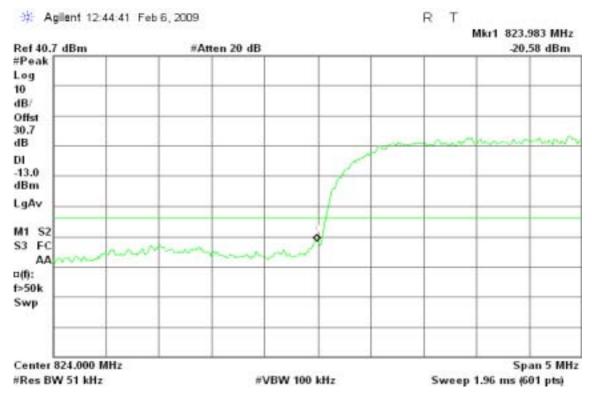
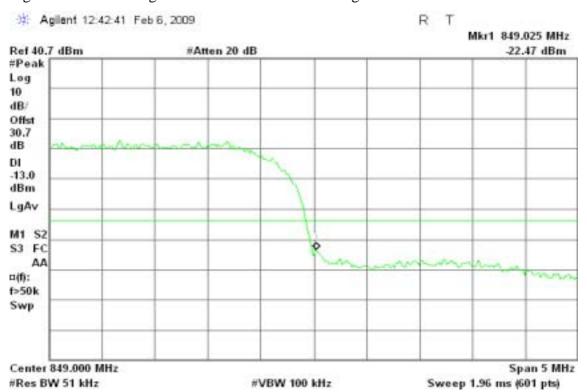


Figure 14-4: Band Edge emissions –WCDMA CH High



Page 68 Rev. 00

C ID: NM8JDBS Date of Issue: February 11, 2009

WCDMA / HSDPA Band II

Figure 15-1: Out of Band emission at antenna terminals -HSDPA CH Low

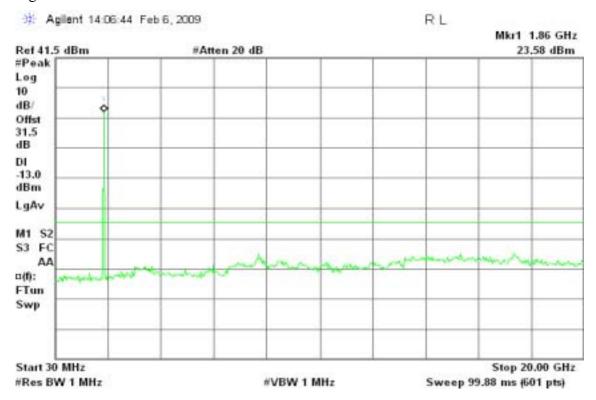
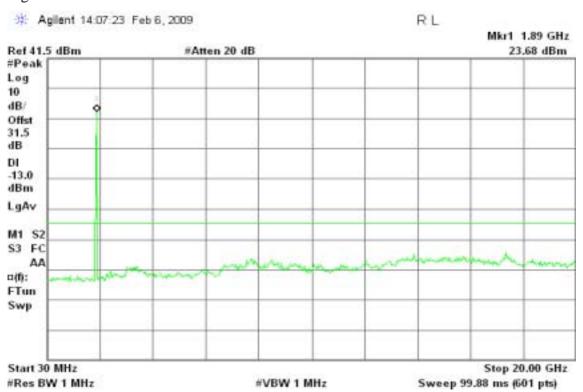
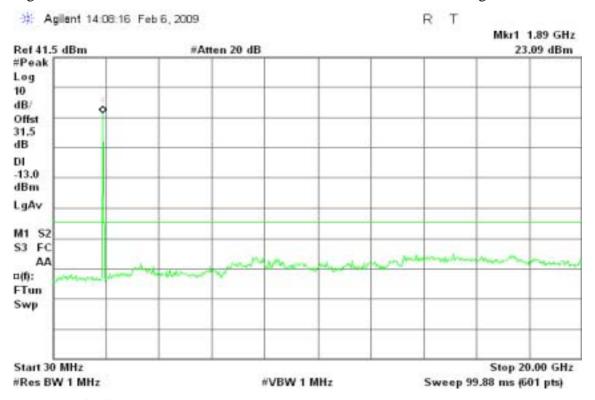


Figure 15-2: Out of Band emission at antenna terminals –HSDPA CH Mid



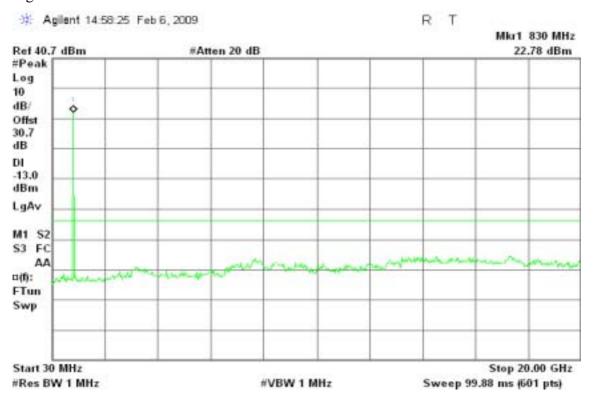
Page 69 Rev. 00

Figure 15-3: Out of Band emission at antenna terminals –HSDPA CH High



WCDMA / HSDPA Band V

Figure 15-4: Out of Band emission at antenna terminals -HSDPA CH Low



Page 70 Rev. 00

Figure 15-5: Out of Band emission at antenna terminals -HSDPA CH Mid

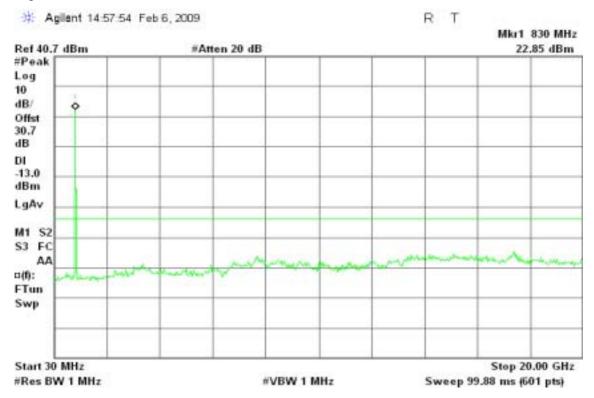
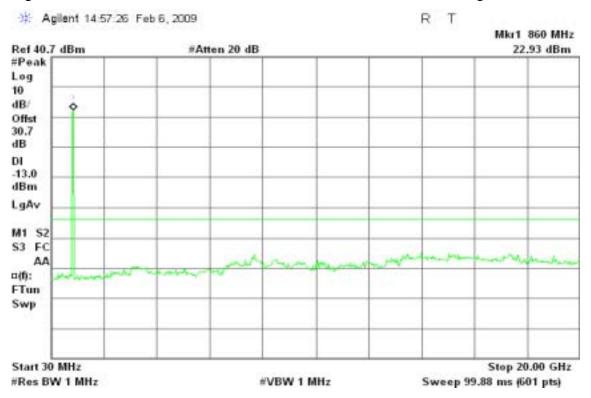


Figure 15-6: Out of Band emission at antenna terminals –HSDPA CH High



Page 71 Rev. 00

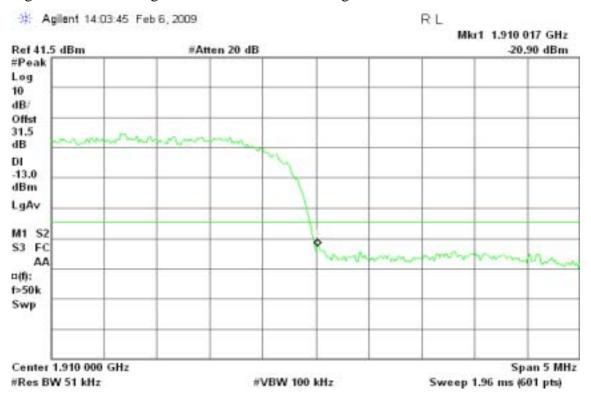
M8JDBS Date of Issue: February 11, 2009

WCDMA / HSDPA Band II

Figure 16-1: Band Edge emissions –HSDPA CH Low



Figure 16-2: Band Edge emissions –HSDPA CH High



Page 72 Rev. 00

Date of Issue: February 11, 2009

WCDMA / HSDPA Band V

Figure 16-3: Band Edge emissions –HSDPA CH Low

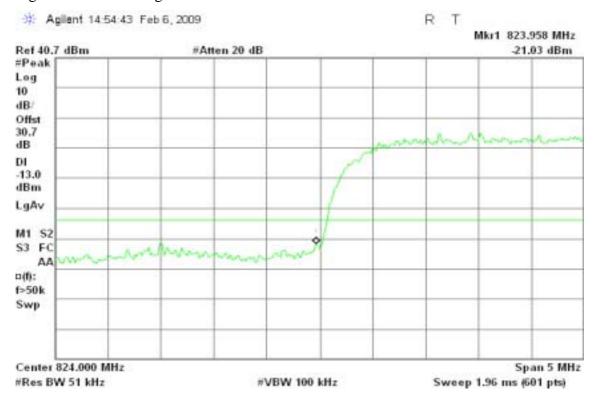
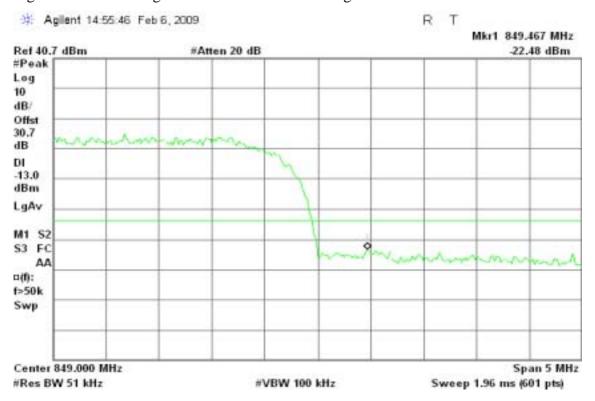


Figure 16-4: Band Edge emissions –HSDPA CH High



Page 73 Rev. 00

Date of Issue: February 11, 2009

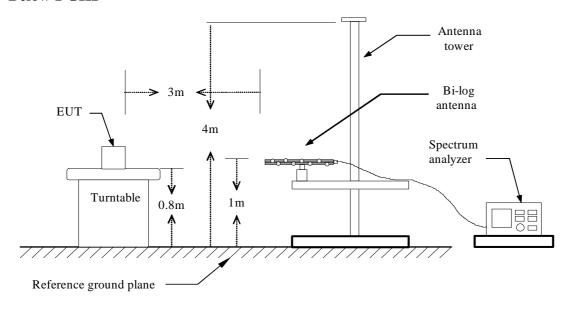
7.6 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

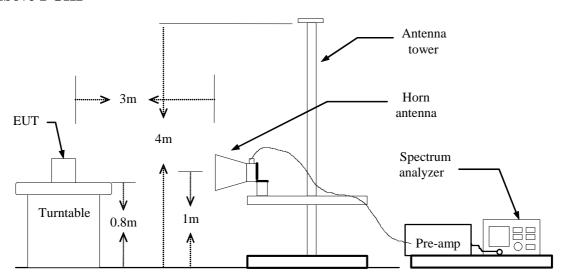
According to FCC §2.1053

Test Configuration

Below 1 GHz



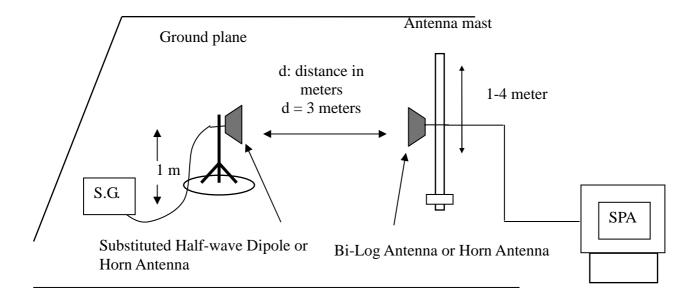
Above 1 GHz



Page 74 Rev. 00

Date of Issue: February 11, 2009

Substituted Method Test Set-up



TEST PROCEDURE

The EUT was placed on a non-conductive, the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable (dB)

TEST RESULTS

Refer to the attached tabular data sheets.

Page 75 Rev. 00

Radiated Spurious Emission Measurement Result / Below 1GHz

Operation Mode: GSM 850 / TX / CH 128 **Test Date:** January 17, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
45.52	V	-57.12	-12.93	-70.06	-13.00	-57.06
99.84	V	-46.96	-18.42	-65.38	-13.00	-52.38
132.82	V	-58.95	-12.65	-71.60	-13.00	-58.60
408.30	V	-54.54	-10.19	-64.73	-13.00	-51.73
512.09	V	-59.93	-7.71	-67.64	-13.00	-54.64
682.81	V	-64.19	-5.87	-70.06	-13.00	-57.06
99.84	Н	-46.59	-18.73	-65.32	-13.00	-52.32
152.22	Н	-58.46	-13.03	-71.49	-13.00	-58.49
272.50	Н	-61.40	-12.88	-74.28	-13.00	-61.28
408.30	Н	-53.79	-10.16	-63.95	-13.00	-50.95
512.09	Н	-61.31	-7.78	-69.08	-13.00	-56.08
682.81	Н	-61.70	-6.01	-67.71	-13.00	-54.71

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 76 Rev. 00

Operation Mode: GSM 850 / TX / CH 190 **Test Date:** January 17, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
46.49	V	-55.96	-13.63	-69.59	-13.00	-56.59
73.65	V	-57.46	-16.51	-73.97	-13.00	-60.97
130.88	V	-50.90	-12.84	-63.74	-13.00	-50.74
453.89	V	-61.98	-9.02	-71.01	-13.00	-58.01
548.95	V	-65.55	-7.36	-72.91	-13.00	-59.91
967.99	V	-60.70	-2.47	-63.17	-13.00	-50.17
130.88	Н	-46.88	-14.44	-61.32	-13.00	-48.32
151.25	Н	-56.06	-12.98	-69.04	-13.00	-56.04
452.92	Н	-56.34	-9.00	-65.35	-13.00	-52.35
523.73	Н	-63.46	-7.80	-71.26	-13.00	-58.26
548.95	Н	-65.75	-7.55	-73.30	-13.00	-60.30
967.99	Н	-61.05	-2.68	-63.72	-13.00	-50.72

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 77 Rev. 00

Operation Mode: GSM 850 / TX / CH 251 **Test Date:** January 17, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
45.52	V	-56.18	-12.93	-69.11	-13.00	-56.11
71.71	V	-57.61	-15.69	-73.29	-13.00	-60.29
83.35	V	-56.55	-19.78	-76.33	-13.00	-63.33
133.79	V	-61.07	-12.55	-73.62	-13.00	-60.62
180.35	V	-63.18	-14.06	-77.25	-13.00	-64.25
288.99	V	-66.55	-11.40	-77.95	-13.00	-64.95
44.55	11	(2.64	11.52	75 17	12.00	62.17
44.55	Н	-63.64	-11.53	-75.17	-13.00	-62.17
83.35	Н	-55.30	-21.06	-76.36	-13.00	-63.36
150.28	Н	-57.29	-12.93	-70.23	-13.00	-57.23
181.32	Н	-60.96	-12.76	-73.72	-13.00	-60.72
252.13	Н	-64.00	-14.37	-78.37	-13.00	-65.37
277.35	Н	-65.63	-12.91	-78.54	-13.00	-65.54

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 78 Rev. 00

Operation Mode: GPRS 850 / TX / CH 128 **Test Date:** January 17, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
44.55	V	-64.76	-12.63	-77.40	-13.00	-64.40
99.84	V	-51.23	-18.42	-69.65	-13.00	-56.65
132.82	V	-64.65	-12.65	-77.30	-13.00	-64.30
399.57	V	-63.85	-10.62	-74.47	-13.00	-61.47
407.33	V	-64.32	-10.24	-74.56	-13.00	-61.56
512.09	V	-61.00	-7.71	-68.71	-13.00	-55.71
42.61	Н	-63.94	-11.53	-75.47	-13.00	-62.47
99.84	Н	-47.78	-18.73	-66.51	-13.00	-53.51
399.57	Н	-57.61	-10.46	-68.07	-13.00	-55.07
407.33	Н	-57.88	-10.19	-68.07	-13.00	-55.07
512.09	Н	-61.24	-7.78	-69.02	-13.00	-56.02
681.84	Н	-65.81	-6.02	-71.83	-13.00	-58.83

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 79 Rev. 00

Operation Mode: GPRS 850 / TX / CH 190 **Test Date:** January 17, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
43.58	V	-64.36	-12.78	-77.14	-13.00	-64.14
116.33	V	-63.74	-14.60	-78.34	-13.00	-65.34
132.82	V	-65.63	-12.65	-78.28	-13.00	-65.28
194.90	V	-65.71	-13.94	-79.65	-13.00	-66.65
415.09	V	-68.18	-9.87	-78.05	-13.00	-65.05
648.86	V	-68.81	-6.07	-74.87	-13.00	-61.87
	<u> </u>					
43.58	Н	-65.55	-11.53	-77.08	-13.00	-64.08
130.88	Н	-58.33	-14.44	-72.77	-13.00	-59.77
188.11	Н	-64.04	-13.41	-77.45	-13.00	-64.45
288.02	Н	-67.37	-11.93	-79.30	-13.00	-66.30
453.89	Н	-68.60	-8.99	-77.59	-13.00	-64.59
548.95	Н	-68.10	-7.55	-75.65	-13.00	-62.65

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 80 Rev. 00

Operation Mode: GPRS 850 / TX / CH 251 **Test Date:** January 17, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
44.55	V	-64.47	-12.63	-77.10	-13.00	-64.10
66.86	V	-65.30	-15.18	-80.48	-13.00	-67.48
116.33	V	-64.46	-14.60	-79.06	-13.00	-66.06
195.87	V	-67.13	-13.79	-80.92	-13.00	-67.92
568.35	V	-68.61	-7.26	-75.87	-13.00	-62.87
684.75	V	-68.95	-5.84	-74.80	-13.00	-61.80
42.61	Н	-64.56	-11.53	-76.09	-13.00	-63.09
42.01	11	-04.50	-11.55	-70.09	-13.00	-03.09
65.89	Н	-63.48	-16.84	-80.32	-13.00	-67.32
132.82	Н	-64.02	-14.38	-78.40	-13.00	-65.40
188.11	Н	-63.87	-13.41	-77.28	-13.00	-64.28
289.96	Н	-67.86	-11.69	-79.56	-13.00	-66.56
553.80	Н	-68.62	-7.44	-76.06	-13.00	-63.06

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 81 Rev. 00

Operation Mode: GSM 1900 / TX / CH 512 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
41.64	V	-56.46	-13.09	-69.55	-13.00	-56.55
83.35	V	-54.36	-19.78	-74.14	-13.00	-61.14
117.30	V	-60.29	-14.43	-74.72	-13.00	-61.72
134.76	V	-60.80	-12.45	-73.25	-13.00	-60.25
256.01	V	-62.54	-13.88	-76.42	-13.00	-63.42
N/A						
45.52	Н	-63.07	-11.85	-74.92	-13.00	-61.92
67.83	Н	-60.30	-17.24	-77.54	-13.00	-64.54
84.32	Н	-54.35	-21.15	-75.50	-13.00	-62.50
114.39	Н	-62.11	-15.15	-77.27	-13.00	-64.27
148.34	Н	-56.13	-13.13	-69.26	-13.00	-56.26
353.98	Н	-63.36	-12.43	-75.79	-13.00	-62.79

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 82 Rev. 00

Operation Mode: GSM 1900 / TX / CH 661 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
46.49	V	-56.87	-13.63	-70.50	-13.00	-57.50
73.65	V	-57.98	-16.51	-74.49	-13.00	-61.49
119.24	V	-60.71	-14.08	-74.79	-13.00	-61.79
143.49	V	-62.71	-11.92	-74.63	-13.00	-61.63
191.99	V	-63.43	-14.37	-77.80	-13.00	-64.80
252.13	V	-62.97	-13.95	-76.92	-13.00	-63.92
42.61	Н	-63.42	-11.53	-74.95	-13.00	-61.95
84.32	Н	-54.53	-21.15	-75.68	-13.00	-62.68
149.31	Н	-57.05	-13.01	-70.05	-13.00	-57.05
179.38	Н	-62.69	-12.63	-75.32	-13.00	-62.32
255.04	Н	-64.24	-14.25	-78.50	-13.00	-65.50
354.95	Н	-66.28	-12.38	-78.66	-13.00	-65.66

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 83 Rev. 00

Operation Mode: GSM 1900 / TX / CH 810 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
45.52	V	-56.71	-12.93	-69.65	-13.00	-56.65
84.32	V	-55.24	-19.95	-75.19	-13.00	-62.19
133.79	V	-61.75	-12.55	-74.30	-13.00	-61.30
182.29	V	-63.63	-14.18	-77.82	-13.00	-64.82
256.01	V	-62.68	-13.88	-76.56	-13.00	-63.56
352.04	V	-66.49	-12.28	-78.77	-13.00	-65.77
44.55	Н	-63.80	-11.53	-75.33	-13.00	-62.33
83.35	Н	-54.58	-21.06	-75.64	-13.00	-62.64
116.33	Н	-62.85	-14.80	-77.64	-13.00	-64.64
151.25	Н	-56.59	-12.98	-69.58	-13.00	-56.58
184.23	Н	-62.84	-13.04	-75.88	-13.00	-62.88
250.19	Н	-60.96	-14.44	-75.40	-13.00	-62.40

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 84 Rev. 00

Operation Mode: GPRS 1900 / TX / CH 512 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
41.64	V	-61.64	-13.09	-74.73	-13.00	-61.73
116.33	V	-63.46	-14.60	-78.06	-13.00	-65.06
141.55	V	-67.69	-11.93	-79.62	-13.00	-66.62
198.78	V	-66.28	-13.35	-79.64	-13.00	-66.64
292.87	V	-68.11	-11.59	-79.70	-13.00	-66.70
343.31	V	-64.48	-12.59	-77.07	-13.00	-64.07
41.64	Н	-63.29	-11.54	-74.82	-13.00	-61.82
83.35	Н	-59.47	-21.06	-80.53	-13.00	-67.53
132.82	Н	-63.82	-14.38	-78.20	-13.00	-65.20
153.19	Н	-63.83	-13.08	-76.91	-13.00	-63.91
188.11	Н	-64.61	-13.41	-78.02	-13.00	-65.02
284.14	Н	-67.35	-12.41	-79.77	-13.00	-66.77

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 85 Rev. 00

Operation Mode: GPRS 1900 / TX / CH 661 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
41.64	V	-58.01	-13.09	-71.10	-13.00	-58.10
74.62	V	-60.72	-16.92	-77.64	-13.00	-64.64
116.33	V	-60.41	-14.60	-75.01	-13.00	-62.01
136.70	V	-61.80	-12.26	-74.06	-13.00	-61.06
289.96	V	-64.81	-11.28	-76.09	-13.00	-63.09
325.85	V	-63.36	-12.77	-76.13	-13.00	-63.13
31.94	Н	-46.19	-18.25	-64.44	-13.00	-51.44
44.55	Н	-63.58	-11.53	-75.11	-13.00	-62.11
84.32	Н	-57.08	-21.15	-78.23	-13.00	-65.23
132.82	Н	-64.51	-14.38	-78.89	-13.00	-65.89
150.28	Н	-61.38	-12.93	-74.32	-13.00	-61.32
188.11	Н	-63.79	-13.41	-77.20	-13.00	-64.20

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 86 Rev. 00

Operation Mode: GPRS 1900 / TX / CH 810 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
41.64	V	-56.89	-13.09	-69.98	-13.00	-56.98
73.65	V	-58.34	-16.51	-74.85	-13.00	-61.85
83.35	V	-55.60	-19.78	-75.38	-13.00	-62.38
116.33	V	-59.31	-14.60	-73.91	-13.00	-60.91
195.87	V	-64.16	-13.79	-77.95	-13.00	-64.95
259.89	V	-61.81	-13.80	-75.62	-13.00	-62.62
41.64	Н	-62.90	-11.54	-74.43	-13.00	-61.43
83.35	Н	-54.95	-21.06	-76.01	-13.00	-63.01
150.28	Н	-56.93	-12.93	-69.87	-13.00	-56.87
252.13	Н	-63.59	-14.37	-77.95	-13.00	-64.95
325.85	Н	-64.20	-13.16	-77.37	-13.00	-64.37
411.21	Н	-64.72	-10.06	-74.78	-13.00	-61.78

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 87 Rev. 00

Operation Mode: EDGE 850 / TX / CH 128 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Antenna Reading **Correction Factor Emission level** Limit Margin **Frequency Polarization** (MHz) (dBm) (dBm) (dBm) (dB) (dB) (V/H)40.67 V -63.96 -13.24 -77.20 -13.00 -64.20 V 66.86 -65.30 -15.18 -80.48 -13.00 -67.48 116.33 V -65.36 -14.60 -79.96 -13.00 -66.96 132.82 V -65.64 -12.65 -78.29 -13.00 -65.29 V 288.02 -66.74 -11.51 -78.25 -13.00 -65.25 428.67 V -68.18 -9.50 -77.68 -13.00 -64.68 99.84 Η -47.61 -18.73 -66.34 -13.00 -53.34 398.60 Η -57.41 -10.51 -67.92 -13.00 -54.92 408.30 Η -61.43 -10.16 -71.59 -13.00 -58.59 512.09 Η -60.27 -7.78 -68.04 -13.00 -55.04 -64.42 -6.01 -70.43 682.81 Η -13.00 -57.43

Remark:

924.34

Η

-67.58

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

-2.99

-70.57

-13.00

-57.57

2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 88 Rev. 00

Operation Mode: EDGE 850 / TX / CH 190 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
40.67	V	-63.81	-13.24	-77.06	-13.00	-64.06
66.86	V	-64.89	-15.18	-80.07	-13.00	-67.07
132.82	V	-65.59	-12.65	-78.24	-13.00	-65.24
151.25	V	-66.79	-12.07	-78.86	-13.00	-65.86
193.93	V	-67.25	-14.08	-81.33	-13.00	-68.33
360.77	V	-67.70	-11.99	-79.70	-13.00	-66.70
43.58	Н	-63.49	-11.53	-75.02	-13.00	62.02
43.38	п	-03.49	-11.55	-73.02	-13.00	-62.02
130.88	Н	-60.00	-14.44	-74.43	-13.00	-61.43
141.55	Н	-64.95	-13.99	-78.95	-13.00	-65.95
188.11	Н	-62.83	-13.41	-76.24	-13.00	-63.24
548.95	Н	-66.98	-7.55	-74.53	-13.00	-61.53
967.99	Н	-66.37	-2.68	-69.05	-13.00	-56.05

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 89 Rev. 00

Operation Mode: EDGE 850 / TX / CH 251 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
43.58	V	-64.07	-12.78	-76.85	-13.00	-63.85
66.86	V	-63.75	-15.18	-78.93	-13.00	-65.93
132.82	V	-66.14	-12.65	-78.79	-13.00	-65.79
155.13	V	-66.81	-12.62	-79.42	-13.00	-66.42
195.87	V	-66.70	-13.79	-80.49	-13.00	-67.49
256.01	V	-65.64	-13.88	-79.51	-13.00	-66.51
44.55	Н	-64.95	-11.53	-76.48	-13.00	-63.48
66.86	Н	-64.73	-17.04	-81.76	-13.00	-68.76
132.82	Н	-62.97	-14.38	-77.35	-13.00	-64.35
194.90	Н	-64.08	-12.75	-76.83	-13.00	-63.83
295.78	Н	-68.35	-12.47	-80.82	-13.00	-67.82
395.69	Н	-68.11	-10.65	-78.76	-13.00	-65.76

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 90 Rev. 00

Operation Mode: EDGE 1900 / TX / CH 512 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
41.64	V	-60.61	-13.09	-73.70	-13.00	-60.70
74.62	V	-62.25	-16.92	-79.17	-13.00	-66.17
85.29	V	-60.30	-20.12	-80.42	-13.00	-67.42
116.33	V	-62.20	-14.60	-76.80	-13.00	-63.80
140.58	V	-65.72	-11.93	-77.65	-13.00	-64.65
194.90	V	-65.64	-13.94	-79.58	-13.00	-66.58
32.91	Н	-46.26	-17.31	-63.57	-13.00	-50.57
83.35	Н	-59.36	-21.06	-80.42	-13.00	-67.42
132.82	Н	-64.38	-14.38	-78.76	-13.00	-65.76
152.22	Н	-62.62	-13.03	-75.66	-13.00	-62.66
188.11	Н	-64.97	-13.41	-78.38	-13.00	-65.38
439.34	Н	-67.79	-9.22	-77.01	-13.00	-64.01

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 91 Rev. 00

Operation Mode: EDGE 1900 / TX / CH 661 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
44.55	V	-62.37	-12.63	-75.01	-13.00	-62.01
70.74	V	-63.50	-15.27	-78.77	-13.00	-65.77
116.33	V	-59.98	-14.60	-74.58	-13.00	-61.58
146.40	V	-66.69	-11.91	-78.60	-13.00	-65.60
389.87	V	-65.02	-11.21	-76.24	-13.00	-63.24
773.99	V	-68.98	-4.72	-73.70	-13.00	-60.70
30.97	Н	-54.99	-19.20	-74.19	-13.00	-61.19
83.35	Н	-58.53	-21.06	-79.59	-13.00	-66.59
151.25	Н	-63.41	-12.98	-76.39	-13.00	-63.39
199.75	Н	-65.14	-11.92	-77.06	-13.00	-64.06
283.17	Н	-67.30	-12.53	-79.83	-13.00	-66.83
569.32	Н	-68.31	-7.10	-75.41	-13.00	-62.41

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 92 Rev. 00

Operation Mode: EDGE 1900 / TX / CH 810 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
43.58	V	-61.95	-12.78	-74.74	-13.00	-61.74
69.77	V	-65.17	-14.98	-80.14	-13.00	-67.14
116.33	V	-62.53	-14.60	-77.14	-13.00	-64.14
139.61	V	-66.87	-11.97	-78.84	-13.00	-65.84
196.84	V	-66.22	-13.64	-79.86	-13.00	-66.86
288.02	V	-67.78	-11.51	-79.29	-13.00	-66.29
32.91	Н	-49.03	-17.31	-66.34	-13.00	-53.34
83.35	Н	-58.89	-21.06	-79.95	-13.00	-66.95
149.31	Н	-63.67	-13.01	-76.68	-13.00	-63.68
188.11	Н	-64.38	-13.41	-77.79	-13.00	-64.79
200.72	Н	-66.81	-12.05	-78.86	-13.00	-65.86
475.23	Н	-68.31	-8.48	-76.79	-13.00	-63.79

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 93 Rev. 00

Operation Mode: WCDMA Band II / TX / CH 9262 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
150.28	V	-55.62	-11.94	-67.56	-13.00	-54.56
157.07	V	-55.02	-12.89	-67.90	-13.00	-54.90
226.91	V	-51.81	-14.28	-66.09	-13.00	-53.09
252.13	V	-56.33	-13.95	-70.28	-13.00	-57.28
377.26	V	-59.24	-11.84	-71.08	-13.00	-58.08
503.36	V	-64.13	-7.73	-71.86	-13.00	-58.86
66.86	Н	-52.02	-17.04	-69.06	-13.00	-56.06
94.02	Н	-45.20	-20.47	-65.67	-13.00	-52.67
150.28	Н	-58.28	-12.93	-71.22	-13.00	-58.22
186.17	Н	-54.30	-13.22	-67.53	-13.00	-54.53
377.26	Н	-61.65	-11.51	-73.16	-13.00	-60.16
427.70	Н	-61.60	-9.55	-71.15	-13.00	-58.15

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 94 Rev. 00

Operation Mode: WCDMA Band II / TX / CH 9400 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
157.07	V	-54.42	-12.89	-67.31	-13.00	-54.31
186.17	V	-54.76	-14.43	-69.19	-13.00	-56.19
226.91	V	-52.49	-14.28	-66.77	-13.00	-53.77
252.13	V	-56.00	-13.95	-69.95	-13.00	-56.95
377.26	V	-59.12	-11.84	-70.97	-13.00	-57.97
503.36	V	-64.40	-7.73	-72.12	-13.00	-59.12
32.91	Н	-45.41	-17.31	-62.71	-13.00	-49.71
32.91	П	-43.41	-17.31	-02.71	-13.00	-49.71
58.13	Н	-51.39	-15.43	-66.82	-13.00	-53.82
66.86	Н	-51.94	-17.04	-68.97	-13.00	-55.97
94.02	Н	-46.47	-20.47	-66.94	-13.00	-53.94
186.17	Н	-55.27	-13.22	-68.49	-13.00	-55.49
427.70	Н	-62.24	-9.55	-71.79	-13.00	-58.79

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 95 Rev. 00

Operation Mode: WCDMA Band II / TX / CH 9538 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
66.86	V	-56.17	-15.18	-71.35	-13.00	-58.35
150.28	V	-56.50	-11.94	-68.44	-13.00	-55.44
157.07	V	-54.69	-12.89	-67.58	-13.00	-54.58
186.17	V	-55.25	-14.43	-69.67	-13.00	-56.67
226.91	V	-52.24	-14.28	-66.53	-13.00	-53.53
377.26	V	-59.44	-11.84	-71.28	-13.00	-58.28
66.06	**	50.01	17.04	60.25	12.00	5.5.25
66.86	Н	-52.21	-17.04	-69.25	-13.00	-56.25
94.02	Н	-47.08	-20.47	-67.55	-13.00	-54.55
186.17	Н	-55.31	-13.22	-68.53	-13.00	-55.53
377.26	Н	-61.68	-11.51	-73.19	-13.00	-60.19
427.70	Н	-60.98	-9.55	-70.53	-13.00	-57.53
452.92	Н	-61.87	-9.00	-70.87	-13.00	-57.87

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 96 Rev. 00

Operation Mode: WCDMA Band V / TX / CH 4132 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
65.89	V	-58.59	-15.25	-73.84	-13.00	-60.84
150.28	V	-55.75	-11.94	-67.69	-13.00	-54.69
215.27	V	-54.90	-15.00	-69.90	-13.00	-56.90
226.91	V	-50.73	-14.28	-65.01	-13.00	-52.01
252.13	V	-57.95	-13.95	-71.90	-13.00	-58.90
452.92	V	-62.48	-9.04	-71.52	-13.00	-58.52
(()(Н	52.21	17.04	70.25	12.00	57.25
66.86	п	-53.31	-17.04	-70.35	-13.00	-57.35
94.02	Н	-47.25	-20.47	-67.72	-13.00	-54.72
150.28	Н	-61.02	-12.93	-73.96	-13.00	-60.96
186.17	Н	-56.44	-13.22	-69.66	-13.00	-56.66
427.70	Н	-62.90	-9.55	-72.45	-13.00	-59.45
452.92	Н	-65.89	-9.00	-74.89	-13.00	-61.89

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 97 Rev. 00

Operation Mode: WCDMA Band V / TX / CH 4183 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
66.86	V	-56.91	-15.18	-72.09	-13.00	-59.09
150.28	V	-56.51	-11.94	-68.45	-13.00	-55.45
226.91	V	-50.78	-14.28	-65.06	-13.00	-52.06
252.13	V	-57.58	-13.95	-71.53	-13.00	-58.53
326.82	V	-59.91	-12.77	-72.68	-13.00	-59.68
452.92	V	-62.23	-9.04	-71.28	-13.00	-58.28
66.86	Н	-53.82	-17.04	-70.85	-13.00	-57.85
100.81	Н	-49.99	-18.46	-68.45	-13.00	-55.45
150.28	Н	-59.88	-12.93	-72.81	-13.00	-59.81
186.17	Н	-56.06	-13.22	-69.29	-13.00	-56.29
427.70	Н	-62.55	-9.55	-72.10	-13.00	-59.10
452.92	Н	-64.57	-9.00	-73.57	-13.00	-60.57

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 98 Rev. 00

Operation Mode: WCDMA Band V / TX / CH 4233 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
150.28	V	-55.71	-11.94	-67.65	-13.00	-54.65
157.07	V	-56.42	-12.89	-69.31	-13.00	-56.31
215.27	V	-53.82	-15.00	-68.82	-13.00	-55.82
226.91	V	-50.13	-14.28	-64.41	-13.00	-51.41
252.13	V	-57.07	-13.95	-71.02	-13.00	-58.02
452.92	V	-62.15	-9.04	-71.19	-13.00	-58.19
	<u> </u>			1		
41.64	Н	-60.00	-11.54	-71.54	-13.00	-58.54
66.86	Н	-51.66	-17.04	-68.69	-13.00	-55.69
100.81	Н	-50.24	-18.46	-68.70	-13.00	-55.70
186.17	Н	-55.58	-13.22	-68.80	-13.00	-55.80
427.70	Н	-61.97	-9.55	-71.52	-13.00	-58.52
452.92	Н	-65.10	-9.00	-74.10	-13.00	-61.10

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 99 Rev. 00

Operation Mode: WCDMA / HSDPA Band II / TX / CH 9262 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
46.49	V	-60.73	-13.63	-74.36	-13.00	-61.36
71.71	V	-61.71	-15.69	-77.40	-13.00	-64.40
85.29	V	-58.85	-20.12	-78.96	-13.00	-65.96
139.61	V	-65.55	-11.97	-77.52	-13.00	-64.52
284.14	V	-66.46	-11.97	-78.43	-13.00	-65.43
451.95	V	-67.19	-9.06	-76.25	-13.00	-63.25
21.01		42.00	10.25	50.05	12.00	15.05
31.94	Н	-42.00	-18.25	-60.25	-13.00	-47.25
83.35	Н	-56.07	-21.06	-77.13	-13.00	-64.13
151.25	Н	-62.56	-12.98	-75.54	-13.00	-62.54
194.90	Н	-63.34	-12.75	-76.10	-13.00	-63.10
283.17	Н	-66.32	-12.53	-78.85	-13.00	-65.85
439.34	Н	-66.81	-9.22	-76.03	-13.00	-63.03

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 100 Rev. 00

Operation Mode: WCDMA / HSDPA Band II / TX / CH 9400 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
45.52	V	-60.74	-12.93	-73.67	-13.00	-60.67
72.68	V	-60.94	-16.10	-77.04	-13.00	-64.04
84.32	V	-56.53	-19.95	-76.48	-13.00	-63.48
195.87	V	-65.37	-13.79	-79.16	-13.00	-66.16
238.55	V	-62.13	-13.45	-75.59	-13.00	-62.59
384.05	V	-66.09	-11.57	-77.66	-13.00	-64.66
32.91	Н	-51.02	-17.31	-68.32	-13.00	-55.32
84.32	Н	-56.17	-21.15	-77.32	-13.00	-64.32
152.22	Н	-61.13	-13.03	-74.16	-13.00	-61.16
195.87	Н	-63.12	-12.59	-75.71	-13.00	-62.71
272.50	Н	-65.12	-12.88	-78.01	-13.00	-65.01
366.59	Н	-65.80	-11.89	-77.68	-13.00	-64.68

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 101 Rev. 00

Operation Mode: WCDMA / HSDPA Band II / TX / CH 9538 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
45.52	V	-60.96	-12.93	-73.90	-13.00	-60.90
72.68	V	-61.34	-16.10	-77.44	-13.00	-64.44
85.29	V	-57.98	-20.12	-78.09	-13.00	-65.09
146.40	V	-66.06	-11.91	-77.97	-13.00	-64.97
199.75	V	-65.11	-13.21	-78.32	-13.00	-65.32
373.38	V	-65.91	-11.88	-77.79	-13.00	-64.79
22.01	Н	-44.16	-17.31	-61.47	-13.00	-48.47
32.91	П	-44.10	-17.51	-01.47	-13.00	-48.47
84.32	Н	-55.38	-21.15	-76.52	-13.00	-63.52
152.22	Н	-62.16	-13.03	-75.19	-13.00	-62.19
195.87	Н	-62.79	-12.59	-75.38	-13.00	-62.38
272.50	Н	-54.47	-12.88	-67.35	-13.00	-54.35
358.83	Н	-65.04	-12.18	-77.22	-13.00	-64.22

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 102 Rev. 00

Operation Mode: WCDMA / HSDPA Band V / TX / CH 4132 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
66.86	V	-54.80	-15.18	-69.98	-13.00	-56.98
150.28	V	-54.57	-11.94	-66.51	-13.00	-53.51
186.17	V	-53.44	-14.43	-67.87	-13.00	-54.87
214.30	V	-52.03	-15.04	-67.08	-13.00	-54.08
226.91	V	-48.28	-14.28	-62.56	-13.00	-49.56
478.14	V	-62.09	-8.32	-70.41	-13.00	-57.41
66.86	Н	-50.78	-17.04	-67.82	-13.00	-54.82
94.02	Н	-43.81	-20.47	-64.28	-13.00	-51.28
150.28	Н	-56.24	-12.93	-69.17	-13.00	-56.17
186.17	Н	-51.01	-13.22	-64.23	-13.00	-51.23
427.70	Н	-58.59	-9.55	-68.14	-13.00	-55.14
452.92	Н	-61.03	-9.00	-70.03	-13.00	-57.03

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 103 Rev. 00

Operation Mode: WCDMA / HSDPA Band V / TX / CH 4183 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
150.28	V	-54.76	-11.94	-66.70	-13.00	-53.70
186.17	V	-51.70	-14.43	-66.13	-13.00	-53.13
215.27	V	-52.83	-15.00	-67.83	-13.00	-54.83
226.91	V	-48.96	-14.28	-63.24	-13.00	-50.24
252.13	V	-55.93	-13.95	-69.88	-13.00	-56.88
372.41	V	-59.25	-11.89	-71.14	-13.00	-58.14
66.86	Н	-52.07	-17.04	-69.11	-13.00	-56.11
90.14	Н	-43.32	-21.63	-64.95	-13.00	-51.95
150.28	Н	-57.72	-12.93	-70.65	-13.00	-57.65
186.17	Н	-52.43	-13.22	-65.66	-13.00	-52.66
402.48	Н	-62.93	-10.36	-73.28	-13.00	-60.28
427.70	Н	-60.68	-9.55	-70.23	-13.00	-57.23

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 104 Rev. 00

Operation Mode: WCDMA / HSDPA Band V / TX / CH 4233 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
150.28	V	-56.11	-11.94	-68.05	-13.00	-55.05
157.07	V	-56.16	-12.89	-69.05	-13.00	-56.05
215.27	V	-54.16	-15.00	-69.16	-13.00	-56.16
226.91	V	-49.62	-14.28	-63.90	-13.00	-50.90
252.13	V	-56.56	-13.95	-70.51	-13.00	-57.51
503.36	V	-63.74	-7.73	-71.47	-13.00	-58.47
66.86	Н	-52.53	-17.04	-69.57	-13.00	-56.57
100.81	Н	-48.34	-18.46	-66.79	-13.00	-53.79
150.28	Н	-58.27	-12.93	-71.20	-13.00	-58.20
186.17	Н	-54.84	-13.22	-68.06	-13.00	-55.06
427.70	Н	-61.56	-9.55	-71.11	-13.00	-58.11
452.92	Н	-63.69	-9.00	-72.70	-13.00	-59.70

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 105 Rev. 00

Above 1GHz

Operation Mode: GSM 850 / TX / CH 128 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-49.55	1.63	-47.93	-13.00	-34.93
2470.00	V	-43.61	4.75	-38.86	-13.00	-25.86
3296.00	V	-58.91	6.32	-52.59	-13.00	-39.59
N/A						
1651.00	Н	-44.64	1.63	-43.00	-13.00	-30.00
2470.00	Н	-36.58	4.74	-31.84	-13.00	-18.84
3296.00	Н	-60.34	6.02	-54.33	-13.00	-41.33
4045.00	Н	-61.42	7.37	-54.05	-13.00	-41.05
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 106 Rev. 00

Operation Mode: GSM 850 / TX / CH 190 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-48.63	1.64	-46.99	-13.00	-33.99
2512.00	V	-42.40	4.96	-37.44	-13.00	-24.44
N/A						
1672.00	Н	-44.93	1.66	-43.27	-13.00	-30.27
2512.00	Н	-38.30	4.94	-33.37	-13.00	-20.37
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 107 Rev. 00

Operation Mode: GSM 850 / TX / CH 251 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-51.14	1.65	-49.49	-13.00	-36.49
2547.00	V	-46.54	5.02	-41.52	-13.00	-28.52
N/A						
1700.00	Н	-46.43	1.68	-44.74	-13.00	-31.74
2547.00	Н	-40.92	4.98	-35.94	-13.00	-22.94
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 108 Rev. 00

Operation Mode: GPRS 850 / TX / CH 128 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-49.78	1.63	-48.15	-13.00	-35.15
2470.00	V	-43.12	4.75	-38.37	-13.00	-25.37
3296.00	V	-57.85	6.32	-51.53	-13.00	-38.53
N/A						
1651.00	Н	-44.56	1.63	-42.93	-13.00	-29.93
2470.00	Н	-37.10	4.74	-32.35	-13.00	-19.35
3296.00	Н	-58.99	6.02	-52.98	-13.00	-39.98
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 109 Rev. 00

Operation Mode: GPRS 850 / TX / CH 190 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-50.99	1.64	-49.36	-13.00	-36.36
2512.00	V	-42.26	4.96	-37.29	-13.00	-24.29
4185.00	V	-61.99	8.77	-53.22	-13.00	-40.22
N/A						
1672.00	Н	-45.34	1.66	-43.68	-13.00	-30.68
2512.00	Н	-37.08	4.94	-32.14	-13.00	-19.14
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 110 Rev. 00

Operation Mode: GPRS 850 / TX / CH 251 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 55 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-50.72	1.65	-49.07	-13.00	-36.07
2547.00	V	-44.16	5.02	-39.15	-13.00	-26.15
N/A						
1700.00	Н	-47.27	1.68	-45.59	-13.00	-32.59
2547.00	Н	-41.12	4.98	-36.14	-13.00	-23.14
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 111 Rev. 00

Operation Mode: GSM 1900 / TX / CH 512 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5550.00	V	-59.95	8.19	-51.76	-13.00	-38.76
N/A						
4626.00	Н	-63.02	8.46	-54.56	-13.00	-41.56
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 112 Rev. 00

Operation Mode: GSM 1900 / TX / CH 661 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature:25°CTested by:Mark YangHumidity:55 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-58.20	7.81	-50.39	-13.00	-37.39
7517.00	V	-61.12	13.62	-47.50	-13.00	-34.50
N/A						
3758.00	Н	-57.85	6.83	-51.02	-13.00	-38.02
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 113 Rev. 00

Operation Mode: GSM 1900 / TX / CH 810 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3821.00	V	-57.87	8.09	-49.78	-13.00	-36.78
7643.00	V	-58.85	13.81	-45.04	-13.00	-32.04
N/A						
3821.00	Н	-56.36	6.95	-49.41	-13.00	-36.41
5732.00	Н	-60.78	9.65	-51.13	-13.00	-38.13
7643.00	Н	-62.14	13.97	-48.16	-13.00	-35.16
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 114 Rev. 00

Operation Mode: GPRS 1900 / TX / CH 512 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5550.00	V	-56.05	8.19	-47.86	-13.00	-34.86
N/A						
5550.00	Н	-57.89	10.21	47.60	12.00	24.60
5550.00	н	-37.89	10.21	-47.69	-13.00	-34.69
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 115 Rev. 00

Operation Mode: GPRS 1900 / TX / CH 661 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-55.03	7.81	-47.21	-13.00	-34.21
5641.00	V	-57.94	8.23	-49.71	-13.00	-36.71
7545.00	V	-61.83	13.66	-48.17	-13.00	-35.17
N/A						
3758.00	Н	-53.70	6.83	-46.88	-13.00	-33.88
5641.00	Н	-59.33	9.93	-49.40	-13.00	-36.40
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 116 Rev. 00

Operation Mode: GPRS 1900 / TX / CH 810 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3821.00	V	-52.65	8.09	-44.56	-13.00	-31.56
7643.00	V	-59.31	13.81	-45.49	-13.00	-32.49
N/A						
3821.00	Н	-50.33	6.95	-43.38	-13.00	-30.38
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 117 Rev. 00

Operation Mode: EDGE 850 / TX / CH 128 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-56.14	1.63	-54.51	-13.00	-41.51
2470.00	V	-59.68	4.75	-54.93	-13.00	-41.93
N/A						
1651.00	Н	-57.56	1.63	-55.92	-13.00	-42.92
2470.00	Н	-54.36	4.74	-49.62	-13.00	-36.62
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 118 Rev. 00

Operation Mode: EDGE 850 / TX / CH 190 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-59.14	1.64	-57.51	-13.00	-44.51
2512.00	V	-59.36	4.96	-54.40	-13.00	-41.40
N/A						
1.672.00	11	57.70	1.66	56.04	12.00	42.04
1672.00	Н	-57.70	1.66	-56.04	-13.00	-43.04
2512.00	Н	-54.82	4.94	-49.88	-13.00	-36.88
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 119 Rev. 00

Operation Mode: EDGE 850 / TX / CH 251 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-58.79	1.65	-57.14	-13.00	-44.14
2547.00	V	-60.38	5.02	-55.37	-13.00	-42.37
N/A						
1700.00	Н	-57.87	1.68	-56.18	-13.00	-43.18
2547.00	Н	-57.03	4.98	-52.05	-13.00	-39.05
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 120 Rev. 00

Operation Mode: EDGE 1900 / TX / CH 512 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4017.00	V	-59.94	8.86	-51.08	-13.00	-38.08
5550.00	V	-57.77	8.19	-49.58	-13.00	-36.58
N/A						
2974.00	Н	-58.92	5.56	-53.37	-13.00	-40.37
3702.00	Н	-60.20	6.71	-53.49	-13.00	-40.49
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 121 Rev. 00

Operation Mode: EDGE 1900 / TX / CH 661 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-57.25	7.81	-49.44	-13.00	-36.44
4241.00	V	-60.51	8.74	-51.77	-13.00	-38.77
N/A						
3758.00	Н	-56.41	6.83	-49.58	-13.00	-36.58
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 122 Rev. 00

Operation Mode: EDGE 1900 / TX / CH 810 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3821.00	V	-55.08	8.09	-46.99	-13.00	-33.99
7188.00	V	-59.63	13.02	-46.61	-13.00	-33.61
7643.00	V	-56.69	13.81	-42.87	-13.00	-29.87
N/A						
3821.00	Н	-53.36	6.95	-46.41	-13.00	-33.41
7643.00	Н	-60.66	13.97	-46.69	-13.00	-33.69
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 123 Rev. 00

Operation Mode: WCDMA Band II / TX / CH 9262 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3709.00	V	-58.50	7.60	-50.90	-13.00	-37.90
N/A						
2925.00	Н	-59.81	5.49	-54.32	-13.00	-41.32
3709.00	Н	-53.55	6.73	-46.82	-13.00	-33.82
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 124 Rev. 00

Operation Mode: WCDMA Band II / TX / CH 9400 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-51.27	7.81	-43.46	-13.00	-30.46
5641.00	V	-60.22	8.23	-51.99	-13.00	-38.99
N/A						
3758.00	Н	-47.02	6.83	-40.20	-13.00	-27.20
5634.00	Н	-60.08	9.95	-50.13	-13.00	-37.13
6838.00	Н	-60.74	12.02	-48.72	-13.00	-35.72
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 125 Rev. 00

Operation Mode: WCDMA Band II / TX / CH 9538 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3814.00	V	-48.38	8.06	-40.32	-13.00	-27.32
N/A						
2070.00		7 0.55		52 00	12.00	40.00
3058.00	Н	-59.66	5.67	-53.99	-13.00	-40.99
3814.00	Н	-44.27	6.94	-37.33	-13.00	-24.33
5718.00	Н	-57.96	9.69	-48.27	-13.00	-35.27
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 126 Rev. 00

Operation Mode: WCDMA Band V / TX / CH 4132 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-60.77	1.63	-59.14	-13.00	-46.14
2302.00	V	-60.51	3.69	-56.82	-13.00	-43.82
N/A						
1658.00	Н	-56.68	1.64	-55.04	-13.00	-42.04
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 127 Rev. 00

Operation Mode: WCDMA Band V / TX / CH 4183 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1721.00	V	-60.67	1.66	-59.01	-13.00	-46.01
N/A						
1672.00	Н	-57.52	1.66	-55.86	-13.00	-42.86
2512.00	Н	-58.38	4.94	-53.44	-13.00	-40.44
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 128 Rev. 00

Operation Mode: WCDMA Band V / TX / CH 4233 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang **Humidity:** 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-60.65	1.64	-59.02	-13.00	-46.02
2540.00	V	-61.50	5.01	-56.49	-13.00	-43.49
N/A						
1693.00	Н	-55.28	1.68	-53.61	-13.00	-40.61
2540.00	Н	-59.31	4.97	-54.34	-13.00	-41.34
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 129 Rev. 00

Operation Mode: WCDMA / HSDPA Band II / TX / CH 9262 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C Tested by: Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3702.00	V	-56.69	7.57	-49.12	-13.00	-36.12
N/A						
2500.00		71.02	. 50	15.20	12.00	22.20
3709.00	Н	-51.93	6.73	-45.20	-13.00	-32.20
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 130 Rev. 00

Operation Mode: WCDMA / HSDPA Band II / TX / CH 9400 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-50.49	7.81	-42.68	-13.00	-29.68
5641.00	V	-58.45	8.23	-50.21	-13.00	-37.21
N/A						
3765.00	Н	-45.81	6.84	-38.97	-13.00	-25.97
N/A	п	-43.61	0.84	-38.97	-13.00	-23.91

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 131 Rev. 00

Operation Mode: WCDMA / HSDPA Band II / TX / CH 9538 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3814.00	V	-48.21	8.06	-40.15	-13.00	-27.15
5718.00	V	-59.16	8.27	-50.89	-13.00	-37.89
N/A						
3814.00	Н	-44.69	6.94	-37.75	-13.00	-24.75
5718.00	Н	-58.51	9.69	-48.82	-13.00	-35.82
7307.00	Н	-60.00	13.34	-46.67	-13.00	-33.67
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 132 Rev. 00

Operation Mode: WCDMA / HSDPA Band V / TX / CH 4132 **Test Date:** January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
2981.00	V	-60.44	5.75	-54.69	-13.00	-41.69
4822.00	V	-61.49	8.74	-52.75	-13.00	-39.75
N/A						
1651.00	Н	-55.18	1.63	-53.55	-13.00	-40.55
2477.00	Н	-60.63	4.78	-55.85	-13.00	-42.85
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 133 Rev. 00

Operation Mode: WCDMA / HSDPA Band V / TX / CH 4183 Test Date: January 20, 2009

Date of Issue: February 11, 2009

Temperature: 25°C **Tested by:** Mark Yang

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
2848.00	V	-61.46	5.52	-55.94	-13.00	-42.94
N/A						
1672.00	Н	-57.07	1.66	-55.41	-13.00	-42.41
2512.00	Н	-58.83	4.94	-53.90	-13.00	-40.90
	п	-30.03	4.94	-33.90	-13.00	-40.90
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 134 Rev. 00

Operation Mode: WCDMA / HSDPA Band V / TX / CH 4233 Test Date: January 20, 2009

Temperature: 25°C **Tested by:** Mark Yang

Date of Issue: February 11, 2009

Humidity: 50 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1693.00	V	-59.69	1.64	-58.05	-13.00	-45.05
2204.00	V	-60.93	3.07	-57.86	-13.00	-44.86
N/A						
1693.00	Н	-54.55	1.68	-52.87	-13.00	-39.87
2540.00	Н	-59.40	4.97	-54.42	-13.00	-41.42
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

Page 135 Rev. 00

7.7 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

Date of Issue: February 11, 2009

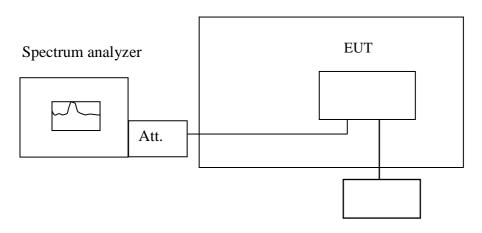
LIMIT

According to FCC §2.1055, FCC §24.235.

Frequency Tolerance: 2.5 ppm

Test Configuration

Temperature Chamber



Variable Power Supply

Remark: Measurement setup for testing on Antenna connector.

Page 136 Rev. 00

TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Date of Issue: February 11, 2009

TEST RESULTS

No non-compliance noted.

	Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C						
	Limit: +	/- 2.5 ppm = 2090 Hz					
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)			
	50	83600025	36				
	40	83600019	30				
	30	83600014	25				
	20	83599989	0				
3.7	10	83600017	28	2090			
	0	83600014	25				
	-10	83600019	30				
	-20	83600025	36				
	-30	83600024	35				

	Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C					
	Limit: ±	± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
	50	1880000029	57			
	40	1880000034	62			
	30	1880000031	59			
	20	1879999972	0			
3.7	10	1880000024	52	4700		
	0	1880000020	48			
	-10	1880000031	59			
	-20	1880000024	52			
	-30	1880000020	48			

Page 137 Rev. 00

	Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C					
	Limit: +	/- 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
	50	83600025	41			
	40	83600014	30			
	30	83600018	34			
	20	83599984	0			
3.7	10	83600015	31	2090		
	0	83600018	34			
	-10	83600017	33			
	-20	83600024	40			
	-30	83600031	47			

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C					
	Limit: ±	± 2.5 ppm = 4700 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	50	1880000021	49		
	40	1880000024	52		
	30	1880000021	49		
	20	1879999972	0		
3.7	10	1880000020	48	4700	
	0	1880000025	53		
	-10	1880000018	46]	
	-20	1880000036	64]	
	-30	1880000024	52]	

Page 138 Rev. 00

	Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C						
	Limit: +	/- 2.5 ppm = 2090 Hz					
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)			
	50	83600012	26				
	40	83600014	28				
	30	83600009	23				
	20	83599986	0				
3.7	10	83600008	22	2090			
	0	83600015	29				
	-10	83600012	26				
	-20	83600012	26				
	-30	83600009	23				

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C					
	Limit: ±	2.5 ppm = 4700 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	50	1880000036	61		
	40	1880000032	57		
	30	1880000019	44		
	20	1879999975	0		
3.7	10	1880000018	43	4700	
	0	1880000031	56		
	-10	1880000014	39		
	-20	1880000025	50		
	-30	1880000017	42		

Page 139 Rev. 00

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C Limit: +/- 2.5 ppm = 2090 HzPower Supply Environment Frequency Delta Limit Vdc Temperature (°C) (Hz) (Hz) (Hz) 83599999 50 3 40 83600002 6 7 30 83600003 20 0 83599996 2090 3.7 10 83599996 0 9 0 83600005 -10 83599996 0 -20 83600006 10 -30 83600004 8

Date of Issue: February 11, 2009

Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C					
	Limit: ±	2.5 ppm = 4700 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	50	1880000001	6		
	40	1880000005	10		
	30	1879999996	1		
	20	1879999995	0		
3.7	10	1879999999	4	4700	
	0	1879999997	2		
	-10	1880000004	9		
	-20	1879999994	-1		
	-30	188000004	9		

Page 140 Rev. 00

Reference Frequency: WCDMA / HSDPA Band V Mid Channel 836.6 MHz @ 20°C Limit: +/- 2.5 ppm = 2090 HzPower Supply Environment Frequency Delta Limit Vdc Temperature (°C) (Hz) (Hz) (Hz) 83600003 50 8 40 83600004 9 30 12 83600007 20 0 83599995 2090 3.7 10 83599995 0 -7 0 83599988 -10 83600004 9 -20 83600005 10 -30 83600006 11

Date of Issue: February 11, 2009

Reference Frequency: WCDMA / HSDPA Band II Mid Channel 1880 MHz @ 20°C					
	Limit: =	± 2.5 ppm = 4700 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
	50	1880000002	-3		
	40	1880000005	0		
	30	1880000001	-4		
	20	1880000005	0		
3.7	10	1879999996	-9	4700	
	0	1879999999	-6	-	
	-10	1879999998	-7		
	-20	1879999992	-13		
	-30	1879999986	-19		

Page 141 Rev. 00

7.8 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

LIMIT

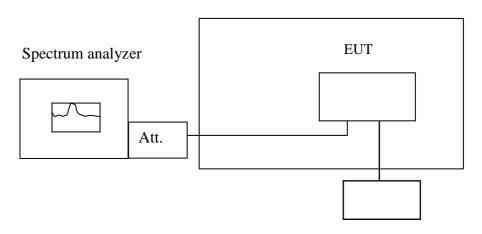
According to FCC §2.1055, FCC §24.235,

Frequency Tolerance: 2.5 ppm.

Test Configuration

Temperature Chamber

Date of Issue: February 11, 2009



Variable Power Supply

Remark: Measurement setup for testing on Antenna connector.

Page 142 Rev. 00

TEST PROCEDURE

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Date of Issue: February 11, 2009

Reduce the input voltage to specify extreme voltage variation (\pm 15%) and endpoint, record the maximum frequency change.

TEST RESULTS

No non-compliance noted.

Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C					
	Limit:	± 2.5 ppm = 2090 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
4.255		83599986	-3		
3.7	20	83599989	0	2090	
3.145	20	83599991	2	2090	
2.8END		83599147	-844		

Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C					
	Limit: ±	± 2.5 ppm = 4700 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
4.255		1879999979	7		
3.7	20	1879999972	0	4700	
3.145	20	1879999972	0	4700	
2.8		1879998496	-1476		

Page 143 Rev. 00

Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C							
	Limit:	± 2.5 ppm = 2090Hz					
Power Supply Vdc							
4.255		83599985	1				
3.7	20	83599984	0	2090			
3.145		83599975	-9	2090			
2.8END		83599136	-839				

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C						
	Limit: ± 2.5 ppm = 4700 Hz					
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
4.255		1879999976	4			
3.7	20	1879999972	0	4700		
3.145	20	1879999966	-6	4700		
2.8END		1879998961	-1011			

Page 144 Rev. 00

Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C					
	Limit:	± 2.5 ppm = 2090Hz			
Power Supply Vdc	Environment Temperature (°C)	Limit (Hz)			
4.255		83599991	5		
3.7	20	83599986	0	2090	
3.145	20	83599988	2	2090	
2.8END		83599394	-594		

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C						
	Limit:	± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)		
4.255		1879999983	8			
3.7	20	1879999975	0	4700		
3.145	20	1879999969	-6	4700		
2.8END		1879999003	-972			

Page 145 Rev. 00

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C							
	Limit:	± 2.5 ppm = 2090Hz					
Power Supply Vdc	Environment Frequency Delta Limit Temperature (°C) (Hz) (Hz) (Hz)						
4.255		83599995	-1				
3.7	20	83599996	0	2090			
3.145	20	83600003	7	2090			
2.8end		83599946	-57				

Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C					
	Limit:	± 2.5 ppm = 4700 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
4.255		1879999989	-6		
3.7	20	1879999995	0	4700	
3.145	20	1879999982	-13	4700	
2.8		1879999569	-426		

Page 146 Rev. 00

Reference Frequency: WCDMA / HSDPA Band V Mid Channel 836.6 MHz @ 20°C							
	Limit:	± 2.5 ppm = 2090Hz					
Power Supply Vdc	Environment Frequency Delta Limit Temperature (°C) (Hz) (Hz) (Hz)						
4.255		83599997	2				
3.7	20	83599995	0	2090			
3.145	20	83599991	-4	2090			
2.8		83599722	-269				

Reference Frequency: WCDMA / HSDPA Band II Mid Channel 1880 MHz @ 20°C					
	Limit:	± 2.5 ppm = 4700 Hz			
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)	
4.255		1879999996	-9		
3.7	20	1880000005	0	4700	
3.145	20	188000007	2	4700	
2.8		1879999161	-844		

Page 147 Rev. 00

7.9 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Date of Issue: February 11, 2009

Frequency Range (MHz)	Limits (dBµV)			
Frequency Range (MIIZ)	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

Page 148 Rev. 00

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Date of Issue: February 11, 2009

Operation Mode: Normal Link Test Date: February 10, 2009

Temperature: 22°C **Tested by:** Ryan Chen

Humidity: 45% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.1600	41.31	35.61	0.19	41.50	35.80	65.46	55.46	-23.96	-19.66	L1
0.2000	34.54	30.14	0.16	34.70	30.30	63.61	53.61	-28.91	-23.31	L1
0.4450	31.35	26.85	0.05	31.40	26.90	56.97	46.97	-25.57	-20.07	L1
0.8450	28.97	23.07	0.03	29.00	23.10	56.00	46.00	-27.00	-22.90	L1
1.9250	19.87	13.77	0.03	19.90	13.80	56.00	46.00	-36.10	-32.20	L1
10.6000	24.42	19.62	0.58	25.00	20.20	60.00	50.00	-35.00	-29.80	L1
0.1600	38.51	30.01	0.19	38.70	30.20	65.46	55.46	-26.76	-25.26	L2
0.2400	29.17	20.87	0.13	29.30	21.00	62.10	52.10	-32.80	-31.10	L2
0.4800	29.56	18.66	0.04	29.60	18.70	56.34	46.34	-26.74	-27.64	L2
0.8450	25.37	19.77	0.03	25.40	19.80	56.00	46.00	-30.60	-26.20	L2
1.5300	22.97	14.27	0.03	23.00	14.30	56.00	46.00	-33.00	-31.70	L2
3.1950	20.49	12.29	0.11	20.60	12.40	56.00	46.00	-35.40	-33.60	L2

Remark:

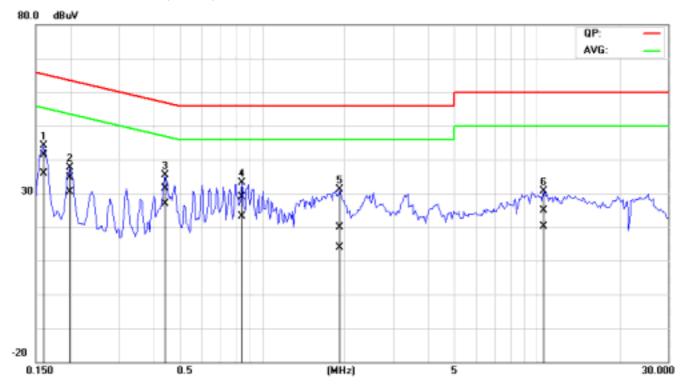
- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4. $L1 = Line \ One \ (Live \ Line) / L2 = Line \ Two \ (Neutral \ Line)$

Page 149 Rev. 00

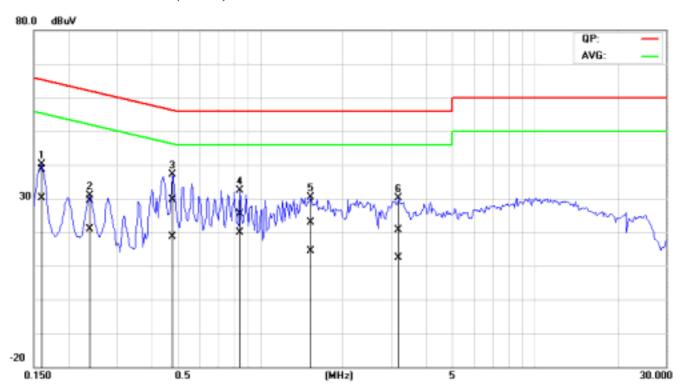
ID: NM8JDBS Date of Issue: February 11, 2009

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



Page 150 Rev. 00